Hewlett Packard Enterprise

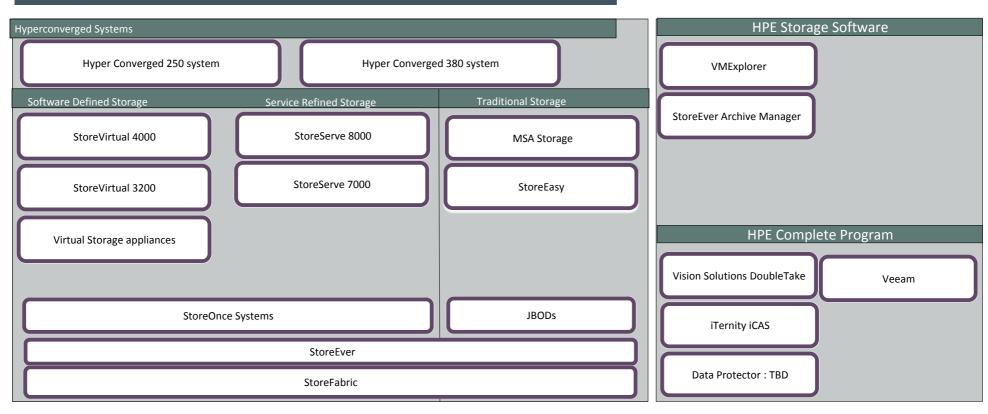
Modifications

Promotions

Bundles

Tape Media

Storage Pricelist for SMB - May 2017





Abbreviations overview

In this pricelist, the first column of every sheet may contain one or more abbreviated messages.

The following table lists all of them, together with a concise explanation of its meaning and possible consequences for the products

N	New product in this pricelist			
P-D	Price has dropped			
P-I	Price has increased			
PROMO	Promotional item. Can be a special configuration @ a special price or an option at a special price			
EOL	Product is End of Life: still orderable through till end of stock			
D/DISTRI	Product is discontinued and no longer available through HP, but some stock still exists @ distri			
PL	Product Line has changed			
С	Description has changed			

Warning :

Multiple abbreviations may be applied to a part number

Eg. P/PROMO : a promotion has dropped in price

Changes summary

Warning

Due to a global shortage in supply of SSD drives, All those drives have been put on allocation until further notice. In order to be able to fullfill your customer orders, please consult your distributor for availability.

1/05/2017

Main changes :

Added the new low-cost B-series 32Gb Fibre Channel switches Added iTenrity iCAS software (part of HPE Complete) Heavily modified both the HC250 and 380 to reflect all the latest changes on SSD and supported OS.

Lots of modifications throughout the pricelist, reshuffling, adding missing items,

1/03/2017

Main changes :

Modified heavily the 3PAR 8000 series; now with All-inclusive software licensing! A lot more simplified!

1/02/2017

Main changes :

Due to a global cost increase for hard disks, SSD drives and Memory kits and the weak position of the Euro vs the dollar, the majority of prices has been increased. Double check you offers . Be aware that HPE offers are valid for no more than 30 days. also be aware that if you extend an existing OPG, that pricing will be reviewed!

1/12/2016

New:

- New : Vision Solutions Doubletake software
- New 10Gbase-T versions for SV3200, support for 8TB hard disks and
- Mainstream endurance disks added to the SV3200
 New StoreEasy systems with Windows Storage Server 2016
- New expanded capacity licenses for StoreEver Archive Mgr

modifications 2/97



Product Lifecycle Modifications

Promotion		longer available	Replaced by	
Discontin	AJ760BT	LTO920 Internal SAS, w. 5 x media (req. Optional HBA)	AP826AT	T
	E7W42A	LTO920 External SAS, w. 5 x media (req. Optional HBA)	E7W41A	
	H0HP1A	SN3000 16Gb SAN Starter kit	NA NA	
Dissantin	AK241B	8gb Simple SAN Connection kit	Replaced by	
Discontin	K2Q81A	ailable while supplies last StoreVirtual 4335 Hybrid SAN Solution	No direct replacement, switch to	31/03/201
	Tago III	olocumaa looc iyana oluv oolalon	SV3200 or VSA Ready nodes	01/00/2011
Bundles				
New				
	Q1H89A	D3600 120TB Bundle with 12* 10TB 12G SAS MDL SC disks		
	Q1H90A Q1H91A	HPE D6020 w/35 10TB 12G SAS 7.2K LFF (3.5in) Dual Port Midline HDD 350TB Bundle HPE D6020 w/70 10TB 12G SAS 7.2K LFF (3.5in) Dual Port Midline HDD 700TB Bundle		
Discontin		longer available	Replaced by	_
2100011111	C8S05A	D3700 7,5TB Bundle with 25 x 300GB 6G 15K SAS SC disks	K2Q10A	
	B7E39A B7E40A	D3700 7,5TB Bundle with 25 x 300GB 6G 10K SAS SC disks D3700 15TB Bundle with 25 x 600GB 6G 10K SAS SC disks	M0S83A	V2O44A (4EV dieke)
	B7E41A	D3700 30TB Bundle with 25 x 1,2TB 6G 10K SAS SC disks	M0S84A (10K disks) M0S86A	K2Q11A (15K disks)
	B7E42A	D3700 25TB Bundle with 25 x 1TB 6G SAS MDL SC disks	M0S88A	
	E7W31A E7W30A	D6000 280TB bundle with 70 x 4TB 7,2K rpm MDL SAS disks D6000 140TB bundle with 35 x 4TB 7,2K rpm MDL SAS disks	K2Q25A K2Q24A	
	E7W32A	D2600 48TB bundle with 12 x 4TB 7,2K rpm MDL SAS disks	TEGE IV	
	QK765A QK766A	D2600 36TB bundle with 12 x 3TB 7,2K rpm MDL SAS disks D2600 18TB bundle with 6 x 3TB 7,2K rpm MDL SAS disks		
	BK766A	D2600 24TB bundle with 12 x 2TB 7,2K rpm MDL SAS disks		
	BV899A	D2600 12TB bundle with 12 x 1TB 7,2K rpm MDL SAS disks		
	B7E36A B7E37A	D3600 24TB Bundle with 12* 2TB 6G SAS MDL SC disks D3600 36TB Bundle with 12* 3TB 6G SAS MDL SC disks	N/A N/A	
Hyperconv	rerged 380 syst			
Discontin	ued and no	longer available	Replaced by	OBS Date
	Q0D51A	HC-380 3 Node VDI Medium Kit		
3PAr Store	Serv 7000			
Discontin	ued and no	longer available	Replaced by	OBS Date
	C8R59B	M6710 450GB 6G SAS 10K 2.5in HDD FIPS Encryption	N/A	31/07/2017
D:	C8R60B	M6710 900GB 6G SAS 10K 2.5in HDD FIPS Encryption	N/A	31/07/2017
Discontin	luea ana avo TH6Z84A	ailable while supplies last M6720 2TB 6G FIPS Encryption SAS 7.2K 3.5in NL HDD	Replaced by	OBS Date
	BD373A	3PAR Reporting Software Suite media kit	N/A N/A	31/05/2017
3PAr Store		Alter American control		
New				
14047	N9Z18A	HPE 3PAR 8000 4-pt 16Gb/10Gb Combo Adptr		
	N9Z19A	HPE 3PAR 8000 4-pt 10Gb Combo Adapter		
Discontin		longer available	Replaced by	OBS Date
StoreOnce	K2P88B	3PAR StoreServ 8000 480GB SAS SFF(2.5in) Solid State Drive - no AFC + SW		
	Systems			
New	BB941D	StoreOnce 5500 44TB capacity upgrade kit, 3 year warranty		
	BB933D	StoreOnce 5500 60TB Drawer + capacity upgrade kit, 3 year warranty		
Discontin	ued and no	longer available	Replaced by	OBS Date
2.000	BB877A	StoreOnce 2700 8TB backup system	BB913A	30/09/2016
	BB910A	StoreOnce 2900 24TB backup system	BB922A & BB914A	31/12/2016
	BB878A BB879A	StoreOnce 4500 24TB Backup system StoreOnce 4700 26TB Backup system	BB915A BB915A	31/12/2016 31/12/2016
	BB903A	StoreOnce 4900 60TB Backup system	BB917A	31/01/2017
Discontin		ailable while supplies last	Replaced by	OBS Date
2.000	BB941A	StoreOnce 5500 44TB capacity upgrade kit	BB941D	1
	BB933A			
	DDSSSA	StoroOpeo EEOO 60TP Drower Leappaint upgrade kit	DD033D	
		StoreOnce 5500 60TB Drawer + capacity upgrade kit	BB933D	
	BB864A EH995C	StoreOnce 4210/4106 6TB capacity upgrade kit	N/A	
04	EH995C EH986B			
StoreVirtu	EH995C EH986B	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit	N/A N/A	
StoreVirtua New	EH995C EH986B al 3200	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4430/D2D 4324 24TB capacity upgrade kit	N/A N/A	
	EH995C EH986B al 3200 N9X22A	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4430/D2D 4324 24TB capacity upgrade kit HPE SV3200 4x10GBase-T SFF Storage	N/A N/A	
	EH995C EH986B al 3200 N9X22A N9X23A Q0F66A	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4430/D2D 4324 24TB capacity upgrade kit HPE SV3200 4x10GBase-T SFF Storage HPE SV3200 4x10GBase-T LFF Storage HPE StoreVirtual 3000 File Controller	N/A N/A	
	EH995C EH986B al 3200 N9X22A N9X23A Q0F66A N9X13A	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4430/D2D 4324 24TB capacity upgrade kit StoreOnce 4430/D2D 4324 24TB capacity upgrade kit HPE SV3200 4x10GBase-T SFF Storage HPE SV3200 4x10GBase-T LFF Storage HPE StoreVirtual 3000 File Controller HPE SV3000 8TB 12G SAS 7.2K LFF MDL HDD	N/A N/A	
	EH995C EH986B al 3200 N9X22A N9X23A Q0F66A	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4430/P2D 4324 24TB capacity upgrade kit HPE SV3200 4x10GBase-T SFF Storage HPE SV3200 4x10GBase-T LFF Storage HPE StoreVirtual 3000 File Controller HPE SV3000 8TB 12G SAS 7:2K LFF MDL HDD HPE SV3000 40GB 12C SAS WI LFF CC SSD	N/A N/A	
	EH995C EH996B al 3200 N9X22A N9X23A QOF66A N9X13A QOF98A N9X87A N9X87A N9X88A	StoreOnce 4210/4106 6TB capacity upgrade kit	N/A N/A	
New	EH995C EH986B at 3200 N9X22A N9X23A Q0F66A N9X13A Q0F83A N9X87A N9X87A N9X89A	StoreOnce 4210/4106 6TB capacity upgrade kit	N/A N/A	
New	EH995C EH996B al 3200 N9X22A N9X23A Q0F66A N9X13A Q0F83A N9X87A N9X87A N9X88A N9X89A	StoreOnce 4210/4106 6TB capacity upgrade kit	N/A N/A N/A	OPS Date
New	EH995C EH996B al 3200 N9X22A N9X33A Q0F66A N9X13A Q0F83A N9X87A N9X88A N9X89A al 4000 System	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4430/D2D 4324 24TB capacity upgrade kit HPE SV3200 4x10GBase-T SFF Storage HPE SV3200 4x10GBase-T LFF Storage HPE StoreVirtual 3000 File Controller HPE SV3000 8TB 126 SAS 7.2K LFF MDL HDD HPE SV3000 400GB 12G SAS WILFF CC SSD HPE SV3000 400GB 12G SAS 2.5in WI SSD HPE SV3000 400GB 12G SAS 2.5in WI SSD HPE SV3000 800GB 12G SAS 2.5in WI SSD	N/A N/A N/A N/A	OBS Date
New	EH995C EH996B al 3200 N9X22A N9X23A Q0F66A N9X13A Q0F83A N9X87A N9X87A N9X88A N9X89A	StoreOnce 4210/4106 6TB capacity upgrade kit	N/A N/A N/A	30/06/2017
New	EH995C EH996B al 3200 N9X22A N9X23A QOF66A N9X13A QOF68A N9X87A N9X87A N9X88A N9X89A al 4000 System UED and QVI B7E16A B7E16A B7E17A	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit HPE SV3200 4x10GBase-T SFF Storage HPE SV3200 4x10GBase-T LFF Storage HPE SV3200 4x10GBase-T LFF Storage HPE SV3200 4x10GBase-T LFF Storage HPE SV3000 8TB 126 SAS 7.2K LFF MDL HDD HPE SV3000 400GB 12G SAS 7.2K LFF MDL HDD HPE SV3000 400GB 12G SAS 2.5in WI SSD HPE SV3000 400GB 12G SAS 2.5in WI SSD HPE SV3000 800GB 12G SAS 2.5in WI SSD HPE SV3000 800GB 12G SAS 2.5in WI SSD STIICATE SAS Node StoreVirtual 4130 2.4TB SAS Node StoreVirtual 4330 3.6TB SAS Node StoreVirtual 4330 7.2TB SAS Node	Replaced by Switch to SV3200 or Vsa Switch to SV3200 or Vsa Switch to SV3200 or Vsa	30/06/2017 30/06/2017 30/06/2017
New	EH995C EH996B al 3200 N9X22A N9X23A QOF66A N9X13A QOF68A N9X87A N9X87A N9X88A N9X88A N9X88A N9X89A 14000 System ued and av	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit HPE SV3200 4x10GBase-T SFF Storage HPE SV3200 4x10GBase-T LFF Storage HPE StoreVirtual 3000 File Controller HPE SV3000 8TB 12 SAS 7.2K LFF MDL HDD HPE SV3000 400GB 12G SAS SW ILFF CC SSD HPE SV3000 400GB 12G SAS XW ILFF CC SSD HPE SV3000 400GB 12G SAS 2.5in WI SSD HPE SV3000 400GB 12G SAS 2.5in WI SSD HPE SV3000 400GB 12G SAS 2.5in WI SSD HPE SV3000 800GB 12G SAS 2.5in WI SSD S stilable while supplies last StoreVirtual 4130 2.4TB SAS Node StoreVirtual 4330 3.6TB SAS Node	N/A N/A N/A N/A Replaced by Switch to SV3200 or Vsa Switch to SV3200 or Vsa	30/06/201 30/06/201 30/06/201 30/06/201
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New	EH995C EH996B al 3200 N9X22A N9X23A Q0F66A N9X13A Q0F83A N9X87A N9X88A N9X89A al 4000 System Ued and ava B7E16A B7E16A B7E18A B7E19A B7E20A F3J70B B7E25B B7E23A B7E26B	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4430/D2D 4324 24TB capacity upgrade kit HPE SV3200 4x10GBase-T SFF Storage HPE SV3200 4x10GBase-T LFF Storage HPE StoreVirtual 3000 File Controller HPE SV3000 8TB 126 SAS 7.2K LFF MDL HDD HPE SV3000 400GB 12G SAS 5.2K LFF MDL HDD HPE SV3000 400GB 12G SAS 3.2K ULFF CC SSD HPE SV3000 400GB 12G SAS 2.5in WI SSD HPE SV3000 400GB 12G SAS 2.5in WI SSD HPE SV3000 800GB 12G SAS 2.5in WI SSD STOREVITUAL 4130 2.4TB SAS Node StoreVirtual 4330 7.2TB SAS Node	Replaced by Switch to SV3200 or Vsa	30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201
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New	EH995C EH995C EH986B al 3200 N9X22A N9X23A QOF66A N9X13A QOF66A N9X13A N9X87A N9X87A N9X88A N9X89A al 4000 System Ued and avi B7E16A B7E16A B7E18A B7E18A B7E19A B7E20A F3J70B B7E26B B7E26B B7E26B B7E26B B7E26B B7E26B B7E26B B7E26B B7E27A B7E28A B7E29A B7E29A B7E29A	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4430/D2D 4324 24TB capacity upgrade kit HPE SV3200 4x10GBase-T SFF Storage HPE SV3200 4x10GBase-T LFF Storage HPE StoreVirtual 3000 File Controller HPE SV3000 8TB 126 SAS 7.2K LFF MDL HDD HPE SV3000 4X10GBase-T LFF Storage HPE SV3000 400GB 12 SAS 2.5in WI SSD HPE SV3000 400GB 12 SAS XW LFF CC SSD HPE SV3000 400GB 12G SAS 2.5in WI SSD HPE SV3000 400GB 12G SAS 2.5in WI SSD HPE SV3000 800GB 12G SAS 2.5in WI SSD SCALLED STORE ST	Replaced by Switch to SV3200 or Vsa	30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017
StoreVirtus Discontin	EH995C EH995C EH986B al 3200 N9X22A N9X23A OOF66A N9X13A OOF68A N9X87A N9X87A N9X88A N9X89A al 4000 System ued and av B7E17A B7E18A B7E19A B7E19A B7E20A F7E20B B7E26B B7E	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit HPE SV3200 4x10GBase-T SFF Storage HPE SV3200 4x10GBase-T LFF Storage HPE StoreVirtual 3000 File Controller HPE SV3000 8D File Controller HPE SV3000 400GB 12G SAS 7.2K LFF MDL HDD HPE SV3000 400GB 12G SAS 8W LFF CC SSD HPE SV3000 200GB 12G SAS 2.5in WI SSD HPE SV3000 400GB 12G SAS 2.5in WI SSD HPE SV3000 800GB 12G SAS 2.5in WI SSD HPE SV3000 800GB 12G SAS 2.5in WI SSD STOREVITUAL 4130 2.4TB SAS Node StoreVirtual 4330 3.6TB SAS Node StoreVirtual 4330 7.2TB SAS Node StoreVirtual 4330 3.6TB MDL SAS Node StoreVirtual 4330 3.0 2TB MDL SAS Node StoreVirtual 4330 1.5TB SAS Node StoreVirtual 430 1.5TB SAS Node StoreVirtual 430 1.5TB SAS Node StoreVirtual 430	Replaced by Switch to SV3200 or Vsa	30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201 30/06/201
StoreVirtus Discontin	EH995C EH995C EH996B al 3200 N9X22A N9X23A Q0F66A N9X13A Q0F66A N9X13A N9X87A N9X88A N9X89A al 4000 System Ued and avi B7E16A B7E16A B7E19A B7E19A B7E26B B7E23A F3J69A B7E23A F3J69A B7E27A B7E29A B7E29A B7E29A B7E29A B7E29A B7E29A B7E29A B7E29A B7E29A	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit HPE SV3200 4x10GBase-T SFF Storage HPE SV3200 4x10GBase-T LFF Storage HPE StoreVirtual 3000 File Controller HPE SV3000 8D File Controller HPE SV3000 400GB 12G SAS 7.2K LFF MDL HDD HPE SV3000 400GB 12G SAS 8W LFF CC SSD HPE SV3000 200GB 12G SAS 2.5in WI SSD HPE SV3000 400GB 12G SAS 2.5in WI SSD HPE SV3000 800GB 12G SAS 2.5in WI SSD HPE SV3000 800GB 12G SAS 2.5in WI SSD STOREVITUAL 4130 2.4TB SAS Node StoreVirtual 4330 3.6TB SAS Node StoreVirtual 4330 7.2TB SAS Node StoreVirtual 4330 3.6TB MDL SAS Node StoreVirtual 4330 3.0 2TB MDL SAS Node StoreVirtual 4330 1.5TB SAS Node StoreVirtual 430 1.5TB SAS Node StoreVirtual 430 1.5TB SAS Node StoreVirtual 430	Replaced by Switch to SV3200 or Vsa	30/06/2011 30/06/2011 30/06/2011 30/06/2011 30/06/2011 30/06/2011 30/06/2011 30/06/2011 30/06/2011 30/06/2011 30/06/2011 30/06/2011 30/06/2011 30/06/2011 30/06/2011
StoreVirtus Discontin	EH995C EH995C EH986B al 3200 N9X22A N9X23A OOF66A N9X13A OOF68A N9X87A N9X87A N9X88A N9X89A al 4000 System ued and av B7E16A B7E17A B7E18A B7E18A B7E19A B7E20A F3720B B7E26B B7E	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit HPE SV3200 4x10GBase-T SFF Storage HPE SV3200 4x10GBase-T LFF Storage HPE StoreVirtual 3000 File Controller HPE SV3000 8D File Controller HPE SV3000 400GB 12G SAS 7.2K LFF MDL HDD HPE SV3000 400GB 12G SAS 8W LFF CC SSD HPE SV3000 200GB 12G SAS 2.5in WI SSD HPE SV3000 400GB 12G SAS 2.5in WI SSD HPE SV3000 800GB 12G SAS 2.5in WI SSD HPE SV3000 800GB 12G SAS 2.5in WI SSD STOREVITUAL 4130 2.4TB SAS Node StoreVirtual 4330 3.6TB SAS Node StoreVirtual 4330 7.2TB SAS Node StoreVirtual 4330 3.6TB MDL SAS Node StoreVirtual 4330 3.0 2TB MDL SAS Node StoreVirtual 4330 1.5TB SAS Node StoreVirtual 430 1.5TB SAS Node StoreVirtual 430 1.5TB SAS Node StoreVirtual 430	Replaced by Switch to SV3200 or Vsa	OBS Date 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017 30/06/2017
StoreVirtus Discontin	EH995C EH995C EH986B al 3200 N9X22A N9X23A OOF66A N9X13A OOF68A N9X87A N9X87A N9X88A N9X89A al 4000 System ued and av B7E16A B7E17A B7E18A B7E18A B7E19A B7E20A F3720B B7E26B B7E	StoreOnce 4210/4106 6TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit StoreOnce 4420/4220/D2D 4112/ D2D 4312 12TB capacity upgrade kit HPE SV3200 4x10GBase-T SFF Storage HPE SV3200 4x10GBase-T LFF Storage HPE StoreVirtual 3000 File Controller HPE SV3000 8D 512 GAS 7.2K LFF MDL HDD HPE SV3000 400GB 12G SAS 2.5m WL SSD HPE SV3000 400GB 12G SAS 2.5m WL SSD HPE SV3000 400GB 12G SAS 2.5m WL SSD HPE SV3000 800GB 12G SAS 2.5m WL SSD HPE SV3000 800GB 12G SAS 2.5m WL SSD STOREVITUAL 4130 2.4TB SAS Node StoreVirtual 4130 3.6TB SAS Node StoreVirtual 4330 7.2TB SAS Node StoreVirtual 4330 0.2TB MDL SAS Node StoreVirtual 4330 0.2TB MDL SAS Node StoreVirtual 4330 0.2TB MDL SAS Node StoreVirtual 4330 0.2 BAS SAS Node	Replaced by Switch to SV3200 or Vsa	30/06/21 30/06/21 30/06/21 30/06/21 30/06/21 30/06/21 30/06/21 30/06/21 30/06/21 30/06/21 30/06/21 30/06/21 30/06/21 30/06/21 30/06/21 30/06/21 30/06/21 30/06/21 30/06/21

modifications 3/97

Hewlett Packard	
Enterprise	

TC458A	HP StoreOnce VSA. 3 year license to use, for up to 10TB, includes support	P9L03A	28/02/2017
D4U47A	HP StoreOnce VSA. 3 year license to use, for up to 50TB, includes support	P9L05A	28/02/2017
D4U49A	HP StoreOnce VSA. 5 year license to use, for up to 4TB, includes support	P9L02A	28/02/2017
D4U62A	HP StoreOnce VSA. 5 year license to use, for up to 10TB, includes support	P9L03A	28/02/2017
D4U48A	HP StoreOnce VSA. 5 year license to use, for up to 50TB, includes support	P9L05A	28/02/2017
D4U56A	HP StoreOnce VSA Software upgrade 4TB> 10TB 3yr LTU	P9L06A	28/02/2017
D4U57A	HP StoreOnce VSA Software upgrade 10TB> 50TB 3yr LTU	P9L07A+P9L08A	28/02/2017
D4U58A	HP StoreOnce VSA Software upgrade 4TB> 10TB 5yr LTU	P9L06A	28/02/2017
D4U59A	HP StoreOnce VSA Software upgrade 10TB> 50TB 5yr LTU	P9L07A+P9L08A	28/02/2017

modifications 4/97



Discontinue	d and no	longer available	Replaced by	OBS Date
		MSA 900GB 6G SAS 10K SFF(2.5in) Enterprise Self Encrypted 3yr Wty Hard Drive	P9M81A (1.2TB)	31/10/
		MSA 2TB 6G SAS 7,2K LFF(3.5in) MDL Self Encrypted 1yr Wty Hard Drive		
toreEasy	M44A	MSA 4TB 6G SAS 7,2K LFF(3.5in) MDL Self Encrypted 1yr Wty Hard Drive		
lew	F49A	HPE StoreEasy 1650 Base System with WSS2016		
		HPE StoreEasy 1650 Expanded Storage Base WSS2016		
		StoreEasy 1850 Base system WSS 2016 (with 2x120GB SSD for OS in the rear and 25 free slots		
		for data disks)		
	F52A	StoreEasy 3850 Gateway Storage Single Node WSS 2016 (1 or 2 to be added to base)		
		StoreEasy 3850 Gateway Storage Blade WSS 2016		
	F60A F61A	StoreEasy 40TB LFF Bundle StoreEasy 40TB LFF Bundle		
		StoreEasy 40TB LFF Bundle		
iscontinue	d and ava	ailable while supplies last	Replaced by	
		StoreEasy 8TB LFF Bundle		
		longer available	Replaced by	OBS Date
	S97A	HPE StoreEasy 1650 90TB SATA Storage		
BODs				
iscontinue	d and no	longer available	Replaced by	OBS Date
		D6000 Modular disk system	K2Q28A	
oreEver	0696A	D6000 Additional I/O module (used for dual domain environments, 1 extra required)	K2Q23A	
		longer available	Replaced by	OBS Date
		Internal LTO 3 Ultrium 920 - 400/800 GB	EH919B (LTO4)	
		Internal LTO 5 Ultrium 3280 - 1500/3000 GB Internal LTO 6 Ultrium 6650 - 2500/6250 GB	EH957B (HH drive) EH969A (HH drive)	+
	848B	External LTO 3 Ultrium 920 - 400/800 GB	EH920B (LTO4)	1
BL5		LTO 5 Ultrium 3280 FC drive upgrade kit (not for MSL6480, full height)	BL544B	
		Rackmount to tabletop conversion kit for G2 1/8 autoloader	No replacement	
	739A	StoreEver MSL8048 48 to 96 slot upgrade kit (required for MSL8048 before adding AQ746A)	No replacement	
oreFabric				
ew				
		HPE SN3600B 32Gb 24/8 FC Switch		
		HPE SN3600B 32Gb 24/24 FC Switch HPE SN3600B 32Gb 24/24 Pwr Pk+ FC Switch		
		HPE SN3600B 8-port FC Upgrade LTU		
	ZIVA	HPE SN3600B 8-port FC Upgrade E-LTU		
-	ZIUAAE	HPE SN3600B Power Pack+ Upgrade LTU		
-	ZIIA	HPE SN3600B Power Pack+ Upgrade E-LTU		
	ZIIMAE	**		
iscontinue	d and no	longer available	Replaced by	OBS Date
	242B	HP 8/20q Fibre Channel Switch (no SFPs, 16 ports enabled, upgradeable to 20 port)	No replacement	
		HP 81B 8Gb Single Port (B)	switch to Qlogic or emulex	
AP7	770B	HP 82B 8Gb Dual Port (B)	switch to Qlogic or emulex	
BK7	780B	HP StorageWorks SN6000 Stackable 12-port Single Power Fibre Channel Switch	No replacement	
AW	/575B	HP StorageWorks SN6000 Stackable 24-port Single Power Fibre Channel Switch	No replacement	
AWS	/576B	HP StorageWorks SN6000 Stackable 24-port Dual Power Fibre Channel Switch	No replacement	
AWS	/584A	HP 8Gb Long Wave 10km Fibre Channel SFP+ 1 Pack Transceiver	No replacement	
iscontinue	d and ava	ailable while supplies last	Replaced by	
AQ2	233B	HP 8/20q Fibre Channel Switch (no SFPs, 8 ports enabled, upgradeable to 20 port)	No replacement	
QK7	726A	10Gb SFP+-Short range Transceiver Kit for SN6000B/SN6500B	TBD	1/07
QK7	727A	10Gb SFP+-Long Range Transceiver Kit for SN6000B/SN6500B	TBD	1/07
AJ7	717A	8Gb SFP+-10Km Transceiver Kit for B-series 8Gbit switches	No replacement	
AJ7	715A	4Gb SFP-SW Transceiver Kit for B-series 8Gbit switches	No replacement	
AW		HP B-series 1GbE Copper SFP 1 Pack	No replacement	
	nivo Manag			
oreEver Arch	ilive manag			
ew		er		
ew Q0L	U66A	HPE Archive Manager Upgr MSL 500TB LTU		
ew Q0L	U66A U69A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU		
Q0L Q0L Q0L	U66A U69A U72A	er HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 2PB LTU		
Q0L Q0L Q0L Q0L	U66A U69A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU		
Q0L Q0L Q0L Q0L	U66A U69A U72A U67A U70A U73A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 1		
QOL	U66A U69A U72A U67A U70A U73A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 500TB LTU		
QOL	U66A U69A U72A U67A U70A U73A U68A U71A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 1PB LTU		
QOL	U66A U69A U72A U67A U70A U73A U68A U71A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 500TB LTU		
QOL	U66A U69A U72A U67A U70A U73A U68A U71A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 1PB LTU		
QOL	U66A U69A U72A U67A U70A U70A U73A U68A U71A U71A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 2PB LTU		
Q0L	U66A U69A U72A U67A U70A U73A U88A U71A U74A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 2PB LTU		
QOL	U66A U69A U72A U67A U70A U70A U73A U68A U71A U71A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 2PB LTU		
OOL	U66A U69A U72A U67A U70A U70A U70A U70A U70A U71A U71A U74A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 2PB LTU Veeam Add 2yr BU Ess Ent VMw Maint LTU Veeam Add 3yr BU Ess Ent VMw Maint Veeam Add 3yr BU Ess Ent VMw Maint Veeam Add 3yr BU Ess Ent VMw Maint		
Q0L	U66A U69A U72A U67A U70A U70A U73A U68A U71A U74A K09A K10A C54A C54A K21A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 1PB LTU HPE Archive Replic Upgr MSL 30TB LTU HPE Archive Replic Upgr MSL 2PB LTU Veeam BU Ess Ent VMw 1yr Maint LTU Veeam Add 2yr BU Ess Ent VMw Maint Veeam Add 3yr BU Ess Ent VMw Maint Veeam BU Ess Ent Hyp-V 1yr Maint LTU Veeam BU Ess Ent Hyp-V 1yr Maint LTU		
QOL	U66A U69A U72A U67A U70A U70A U73A U86A U71A U74A K09A K10A C54A C54A K21A K22A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 1PB LTU HPE Archive Replic Upgr MSL 1PB LTU HPE Archive Replic Upgr MSL 2PB LTU Veeam BU Ess Ent VMw 1yr Maint LTU Veeam Add 3yr BU Ess Ent VMw Maint Veeam Add 3yr BU Ess Ent VMw Maint Veeam Add 3yr BU Ess Ent Hyp-V Maint LTU Veeam Add 2yr BU Ess Ent Hyp-V Maint		
Color	U66A U59A U72A U67A U70A U73A U88A U71A U74A K09A K10A C54A C54A K21A K21A K21A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 2PB LTU Veeam BU Ess Ent VMw 1yr Maint LTU Veeam Add 2yr BU Ess Ent VMw Maint Veeam Add 3yr BU Ess Ent VMw Maint Veeam Add 3yr BU Ess Ent Hyp-V 1yr Maint LTU Veeam Add 3yr BU Ess Ent Hyp-V Maint		
ew	U66A U59A U72A U77A U77A U77A U73A U88A U71A U74A K09A K10A C54A C54A C54A K21A K22A C72A C73A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 2PB LTU Veeam BU Ess Ent VMw 1yr Maint LTU Veeam Add 3yr BU Ess Ent VMw Maint Veeam Add 3yr BU Ess Ent VMw Maint Veeam Add 3yr BU Ess Ent Hyp-V Maint LTU Veeam Add 2yr BU Ess Ent Hyp-V Maint Veeam Add 3yr BU Ess Ent Hyp-V Maint		
ew Q0L Q	U66A U59A U72A U67A U70A U73A U88A U71A U74A K09A K10A C54A C54A K21A K21A K21A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 2PB LTU Veeam BU Ess Ent VMw 1yr Maint LTU Veeam Add 2yr BU Ess Ent VMw Maint Veeam Add 3yr BU Ess Ent VMw Maint Veeam Add 3yr BU Ess Ent Hyp-V 1yr Maint LTU Veeam Add 3yr BU Ess Ent Hyp-V Maint		
Color	U66A U69A U72A U67A U70A U70A U70A U70A U70A U70A U70A U7	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 1PB LTU HPE Archive Replic Upgr MSL 1PB LTU HPE Archive Replic Upgr MSL 2PB LTU Veeam BU Ess Ent VMw 1yr Maint LTU Veeam Add 3yr BU Ess Ent VMw Maint Veeam Add 3yr BU Ess Ent Hyp-V Maint Veeam BU Ess Ent Hyp-V Maint		
Color	U66A U69A U72A U67A U70A U73A U70A U73A U68A U71A U74A K09A K10A C54A K21A K22A C72A C73A K11A K12A C57A C58A	HPE Archive Manager Upgr MSL 500TB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Manager Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 2PB LTU HPE Archive Migratr Upgr MSL 500TB LTU HPE Archive Migratr Upgr MSL 1PB LTU HPE Archive Migratr Upgr MSL 1PB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 500TB LTU HPE Archive Replic Upgr MSL 1PB LTU HPE Archive Replic Upgr MSL 2PB LTU Veeam BU Ess Ent VMw 1yr Maint LTU Veeam Add 3yr BU Ess Ent VMw Maint Veeam Add 3yr BU Ess Ent VMw Maint Veeam Add 3yr BU Ess Ent Hyp-V Maint Veeam Add 3yr BU Ess Ent-VMw Maint		
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modifications 5/97



w			
Q1Z21A	HPE Iternity 1st Server CPU LTU		
Q1Z24A	HPE Iternity Additional Svr CPU LTU		
Q1Z27A	iTernity NFS Connector LTU		
Q1Z13A	HPE Iternity Vol Plus Node 3yr LTU		
Q1Z14A	HPE Iternity Vol Plus Node 5yr LTU		
Q1Z16A	iTernity Archive Vol Plus 10TB 3yr LTU		
Q1Z17A	iTernity Archive Vol Plus 10TB 5yr LTU		
Q1Z19A	HPE Iternity Arch Vol Plus 20TB 3yr LTU		
Q1Z20A	HPE Iternity Arch Vol Plus 20TB 5yr LTU		
Q1Z22A	HPE Iternity 1st Server CPU 3yr LTU		
Q1Z23A	HPE Iternity 1st Server CPU 5yr LTU		
Q1Z25A	HPE Iternity Additional Svr CPU 3yr LTU		
Q1Z26A	HPE Iternity Additional Svr CPU 5yr LTU		
Q1Z28A	iTernity NFS Connector 3yr LTU		
Q2M93A	iTernity NFS Connector 5yr LTU		
Q1Z29A	iTernity Consult Service LTU		
Q1Z14A	HPE Iternity Vol Plus Node 5yr LTU		
Q1Z16A	iTernity Archive Vol Plus 10TB 3yr LTU		
lia			
continued and	available while supplies last		
C7972A	Ultrium 400GB Data Cartridge		
continued and	no longer available	·	
Q2001A	ultrium 1 bar code label pack	N/A	
Q2002A	ultrium 2 bar code label pack	N/A	

modifications 6/97

HPE Complete

HPE Complete is a new resource enabling the purchase of best in class third party branded products with the added reliability of Hewlett Packard Enterprise's interop assurance for a complete validated solution, all via one HPE purchase order.

Benefits are:

<u>One Stop Shop</u> - Purchase complete solutions from HPE that include best in class third party branded products, all on a single HPE purchase order

<u>Validated solution</u> - Confidence of The HPE interop assurance validation for third party branded products that complement HPE Storage & Server solutions

<u>Customer Experience</u> - Hewlett Packard Enterprise ensures complete customer satisfaction, by troubleshooting the solution and facilitating third party expertise for the installation, support and warranty of their <u>Unique Value</u> - Minimize risk, complexity and cost when deploying multi-vendor products and technologies into the HPE ecosystem

For more information please refer HPE Complete on HPE.com

HPE Complete catalog

Already Included in this pricelist:

- VMexplorer

- Veeam

- Doubletake

- iTernity iCAS

Will be added in a future pricelist

- Data Protector

- Storage Optimizer

-Backup Navigator

- Storage Optimizer

Not included in this Pricelist: ask your HPE representative on more info on how to quote/sell these products:

AntemetA 3PAR Vision Arscan's Arxview Scality Ring

Ctera

DropBox business

Non-OEM Brocade SAN switching Virtual Instruments - Virtual Wisdom



Storage Promotions

	PN	Description	PROMO	Normal	Customer
0.		· · · · · · · · · · · · · · · · · · ·	REP	List	discount
Storev	rtual 320	00 Promo Bundles			
SV320	0 starter kits				
		ALL new kits! Fibre channel and 10Gb iSCSI versions require SFP+			
P-I	Q0F22A	HPE SV3200 1Gb iSCSI 6x600 Bndl/TVlite	5.859,70	7.822,00	25%
P-I	Q0F23A	HPE SV3200 10Gb iSCSI 6x900 Bndl/TVlite	6.879,40	10.019,00	31%
P-I	Q0F24A	HPE SV3200 FC Flash no SFP Bndl/TVlite	12.201,20	16.481,00	26%
P-I	Q0F25A	HPE SV3200 FC 6x900 no SFP Bndl/TVlite	6.718,80	9.281,00	28%
MSA P	romo bu	ndles			
MSA10	040 Starter ki	its			
		NEW: MSA1040 SSD starter kit; includes 2 x 400GB SSD drive and the Advanced Virtualisation license			
P-I	P9R11A	MSA1040 SAN FC SFF Flash Bundle	6.326,10	9.295,00	32%
		2,4TB starter kits containing an MSA1040 SFF Base unit with dual controllers, 4 x 600GB 10K rpm SFF 12G SAS disks.			
P-I	M0T24A	MSA1040 SAN FC SFF 2,4TB Bundle	4.901,60	7.186,00	32%
P-I	M0T22A	MSA1040 SAN 1Gb iSCSI SFF 2,4TB Bundle	4.547,40	6.446,00	29%
P-I	M0T23A	MSA1040 SAN 10Gb iSCSI SFF 2,4TB Bundle	5.668,30	7.923,00	28%
	P8Y79A	MSA1040 SAS 12Gb SFF 2,4TB Bundle	4.856,50	7.000,00	31%
MSA20	040 Starter ki				
		Disk starter kits contain an MSA2040 SFF Base unit with dual Converged			
		or SAS controllers, and a selection of 12Gb SAS hard disks. SFP's are			
		NOT included and need to be added separately depending on the			
		customer requirements.			
Disk base	ed Starter kit	ts	l		
P-I	M0T25A	MSA2040 SAN SFF 3,6TB Bundle (6 x 600GB 10k rpm 12Gb SAS)	6.703,40	10.644,00	37%
P-I	M0T27A	MSA2040 SAS SFF 3,6TB Bundle (6 x 600GB 10k rpm 12Gb SAS)	6.938,80	10.570,00	34%
P-I	M0T26A	MSA2040 SAN SFF 5,4TB Bundle (6 x 900GB 10k rpm 12Gb SAS)	7.367,80	11.364,00	35%
P-D	M0T28A	MSA2040 SAS SFF 5,4TB Bundle (6 x 900GB 10k rpm 12Gb SAS)	7.022,40	11.290,00	38%
		Flash starter kits come in two flavors. Each contain an MSA2040 SFF		<u> </u>	
		Base unit with dual Converged or SAS controllers. SFP's are NOT			
		included and need to be added separately depending on the customer			
		<u>requirements.</u>			
		The Performance tiering kits are supplied with : 4 x 200GB 12Gb SAS			
		SSD drives + 6 x 900GB 10K rpm 12G SAS disks and the MSA2040			
		Performance tiering License.			
		The FlashCache kit comes with 2 x 200GB 12Gb SAS SSD drive and 4 x			
		900GB 10k rpm 12Gb SAS drives, this kit is ideal to setup an SSD			
		caching environment.			
Dorforma	nce tiering S	Startor kits			
P-I	M0T29A	MSA2040 SAN SFF 6,2TB Performance kit	11.977,90	20.404,00	41%
P-I	M0T31A	MSA2040 SAS SFF 6,2TB Performance kit	9.760,96	20.330,00	52%
	hing Starter	· ·	3.700,90	20.000,00	JZ /0
P-I	M0T30A	MSA2040 SAN SFF 4TB SSD cache kit	8.208,20	13.156,00	38%
P-I	M0T32A	MSA2040 SAS SFF 4TB SSD cache kit	8.442,50	13.082,00	35%
	1		-::-,50		



Storage Promotions

	PN	Description	PROMO REP	Normal List	Customer discount
Tape d	rive pron	no bundles			
P-I	AP826AT	LTO1760 Internal SAS, w. 5 x media (req. Optional HBA)	1.412,40	2.174,68	35%
P-I	QR555AT	LTO3000 Internal SAS, w. 5 x media (req. Optional HBA)	1.658,80	2.459,24	33%
P-I	C8S42AT	LTO6250 Internal SAS, w. 5 x media (req. Optional HBA)	2.179,10	3.067,00	29%
P-I	P9G74A	LTO15000 Internal SAS, w. 5 x media (req. Optional HBA)	3.809,30	5.023,12	24%
Tape d	rive promo b	undles withy 5x tape media, external drives			
P-I	E7W41A	LTO1760 External SAS, w. 5 x media (req. Optional HBA)	1.549,90	2.395,68	35%
P-I	E7W40A	LTO3000 External SAS, w. 5 x media (req. Optional HBA)	1.716,00	2.472,24	31%
P-I	E7W39A	LTO6250 External SAS, w. 5 x media (req. Optional HBA)	2.288,00	3.269,00	30%
P-I	P9G75A	LTO15000 external SAS, w. 5 x media (req. Optional HBA)	4.038,10	5.493,12	26%
Tape d	rive promo b	undles withy 5x tape media, Rackmount tape drives			
P-I	P9B18A	LTO3000 Rackmount SAS, w. 5 x media (req. Optional HBA)	2.184,60	2.928,24	25%
P-I	P9B19A	LTO6250 Rackmount SAS, w. 5 x media (req. Optional HBA)	2.734,60	3.922,00	30%
P-I	P9G73A	LTO15000 Rackmount SAS, w. 5 x media (req. Optional HBA)	4.393,40	5.443,12	19%
Tape a	utoloader an	d library promo bundles with tape media			
SAS Bas	sed Librarie	s (require appropriate HBA and SAS cable)			
P-I	E7W46A	1/8 G2 LTO3000 SAS Autoloader with 8 x tape media	3.603,60	4.826,48	25%
P-I	E7W45A	1/8 G2 LTO6250 SAS Autoloader with 8 x tape media	4.404,40	5.575,00	21%
P-I	P9G67A	1/8 G2 LTO15000 SAS Autoloader with 8 x tape media	6.783,70	8.586,24	21%
P-I	E7W44A	MSL2024 LTO3000 SAS Library with 24 x tape media	4.461,60	7.112,00	37%
P-I	E7W43A	MSL2024 LTO6250 SAS Library with 24 x tape media	6.234,80	8.321,00	25%
P-I	P9G69A	MSL2024 LTO15000 SAS Library with 24 x tape media	10.524,80	12.175,00	14%
P-I	L4Z52A	MSL4048 LTO5 3000 SAS Library Tvlite with 24x tape media	6.360,20	8.951,00	29%
P-I	L4Z54A	MSL4048 LTO6 6250 SAS Library Tvlite with 24x tape media	8.111,40	10.160,00	20%
P-I	P9G71A	MSL4048 LTO6 15000 SAS Library Tvlite with 24x tape media	12.001,00	14.014,00	14%
FC Base	d Libraries	(require appropriate FC HBA and FC cable).	•		
P-I	M9A10A	1/8 G2 LTO3000 FC Autoloader with 8 x tape media	3.484,00	6.350,80	45%
P-I	M9A09A	1/8 G2 LTO6250 FC Autoloader with 8 x tape media	4.524,00	7.524,00	40%
P-I	P9G68A	1/8 G2 LTO15000 FC Autoloader with 8 x tape media	7.854,00	10.313,24	24%
P-I	M9A08A	MSL2024 LTO3000 FC Library with 24 x tape media	4.347,00	7.785,00	44%
P-I	M9A07A	MSL2024 LTO6250 FC Library with 24 x tape media	6.037,00	8.508,00	29%
P-I	P9G70A	MSL2024 LTO15000 FC Library with 24 x tape media	10.833,90	12.596,00	14%
P-I	L4Z51A	MSL4048 LTO5 3000 FC Library Tvlite with 24 x tape media	6.624,20	9.624,00	31%
P-I	L4Z53A	MSL4048 LTO6 6250 FC Library Tvlite with 24x tape media	8.340,20	10.347,00	19%
P-I	P9G72A	MSL4048 LTO6 15000 FC Library Tvlite with 24x tape media	12.309,00	14.435,00	15%
		1			



Storage Promotions

	PN	Description	PROMO REP	Normal List	Customer discount
Softbun	idle - OP	G based Promo's			

These are all the OPG based promotions. Most of these are softbundles. Meaning: not a single part number bundle, but a list of parts, referenced by a bundle code.

OPG number =94840553 valid from May 1st 2017, till July 31st , 2017

Watch out : these prices ARE NOT VISIBLE IN THE FLATFILE

B-series	switch off	switch offering for 3PAR Storeserve 7000/8000 series					
P-I	QK753B	SN6000B 24/48 SAN Switch (no SFP's!)	11.846,10	14.252,00	17%		
P-I	QR480B	SN6000B 48/48 SAN Switch (no SFP's!)	21.204,10	28.738,00	26%		
P-I	QK754B	SN6000B 24/48 SAN Switch with PowerPack+ Software (no SFP's!)	17.417,25	20.000,00	13%		
P-I	QR481B	SN6000B 48/48 SAN Switch with PowerPack+ Software (no SFP's!)	26.480,99	35.047,00	24%		
3PAR St	R StoreServe 8000 series promotions : watch out bundle references changed !						
70017320		3PAR StoreServ 8200c Bundle All Flash Array 3,2TB	24.515,75	54.257,00	55%		
		3PAR 8200 base , 8 x 400GB cMLC SSD disks, All-in software !, Installation and startup, 3 years 24x7 Proactive Care included.					
70017207		3PAR StoreServ 8200 + StoreOnce Complete solution (primary storage, file serving + backup!)	40.254,04	85.025,00	53%		
		3PAR 8200 base with 8 x 400GB SSD disks, All-in software, StoreOnce 3540 base unit, with Installation and startup included as well as 3 years 24x7 Proactive Care support.					
NEW : S	toreOnce p	promotions					
99966348		HPE StoreOnce 3520 12TB system	14.164,73	21.394,00	34%		
		HPE StoreOnce 3520 Base unit with 1 x 16Gb Fibre Channel HBA, Catalyst license, 3 year foundation care NBD, Installation and startup service included.					
99966349		HPE StoreOnce 3540 24TB system	18.240,29	27.474,00	34%		
		HPE StoreOnce 3540 Base unit with 1 x 16Gb Fibre Channel HBA, Catalyst license, 3 year foundation care 24x7, Installation and startup service included.					
99966350		HPE StoreOnce 3540 48TB system	23.940,98	39.008,00	39%		
		HPE StoreOnce 3540 Base unit + 24TB capacioty upgrade, with 1 x 16Gb Fibre Channel HBA, Catalyst license, 3 year foundation care 24x7, Installation and startup service included.					
99966351		HPE StoreOnce 5100 48TB system	34.951,09	70.766,00	51%		
		HPE StoreOnce 5100 Base unit with 1 x 16Gb Fibre Channel HBA, Catalyst license, 3 year foundation care 24x7, Installation and startup service included.					
99966352		HPE StoreOnce 5100 96TB system	55.231,00	125.721,00	56%		
		HPE StoreOnce 5100 Base unit + 48TB capacioty upgrade, with 1 x 16Gb Fibre Channel HBA, Catalyst license, 3 year foundation care 24x7, Installation and startup service included.					



Storage Bundles

This page contains all available Storage Bundled products.

Bundles are mostly available on request only.

Bundles offer you the advantage of simplified ordering...1 part number to order... However, due to their value and wide choice, these products are not generally stocked by distribution, hence delivery times may vary.

Some bundles offer a better price than build up parts , however do not take this as a general rule.

	PN	Description	REP (in €)
MSA2040 b	oundles		
MSA2040 Ca	pacity Starter kits		
		Kit contents : MSA2040 SFF Energy Star Base unit with dual converged SAN controllers, 24 x 900GB 10K rpm SFF 12Gb SAS disks (no SFP's !)	
P-I	M0S99A	MSA2040 SAN SFF 21.6TB SAS Bundle - Energy Star	19.880,00
P-I	M0T02A	MSA2040 SAS SFF 21.6TB SAS Bundle Energy Star	19.810,00
		Kit contents : MSA2040 SAS SFF Energy Star Base unit with dual 12Gb SAS controllers, 24 x 1.2TB 10K rpm SFF 12Gb SAS disks (no SFP's !)	
P-I	M0T00A	MSA2040 SAN SFF 28.8TB SAS Bundle - Energy Star	22.760,00
P-I	M0T01A	MSA2040 SAS SFF 28.8TB SAS Bundle - Energy Star	22.691,00
StoreFabri	c Bundles		
P-I	C8R08A	StoreFabric SN6000B 16Gb Bundled Fibre Channel switch	22.429,00
		Kit contents: 16Gb 24/48 FC Switch with 24 active ports; rackmount kit; twenty-four 16Gb optical transceivers, accessory kit (enterprise safety and regulatory information, installation guide, rack-mounting instructions), power cords, serial cable, base software of Advanced Fabric OS, Advanced Web Tools, Brocade EZ Switch, Advanced Zoning, and SAN Network Advisor Professional.	

D-Series JI	30Ds bundle	S	
D3600 JBOD	Bundles - 12Gb S	AS disks	
P-I	M0S80A	D3600 48TB Bundle with 12* 4TB 12G SAS MDL SC disks	13.382,00
P-I	M0S81A	D3600 72TB Bundle with 12* 6TB 12G SAS MDL SC disks	16.351,00
P-I	M0S82A	D3600 96TB Bundle with 12* 8TB 12G SAS MDL SC disks	20.408,00
N	Q1H89A	D3600 120TB Bundle with 12* 10TB 12G SAS MDL SC disks	25.103,00
D3700 JBOD	Bundles - 12Gb S	AS disks	
P-I	K2Q10A	D3700 7,5TB Bundle with 25 x 300GB 12G 15K SAS SC disks	15.148,00
P-I	K2Q11A	D3700 15TB Bundle with 25 x 600GB 12G 15K SAS SC disks	26.085,00
P-I	M0S83A	D3700 7,5TB Bundle with 25 x 300GB 12G 10K SAS SC disks	10.410,00
P-I	M0S84A	D3700 15TB Bundle with 25 x 600GB 12G 10K SAS SC disks	15.152,00
P-I	M0S85A	D3700 22,5TB Bundle with 25 x 900GB 12G 10K SAS SC disks	18.863,00
P-I	M0S86A	D3700 30TB Bundle with 25 x 1,2TB 12G 10K SAS SC disks	22.780,00
P-I	M0S87A	D3700 45TB Bundle with 25 x 1,8TB 12G 10K SAS SC disks	35.769,00
P-I	M0S88A	D3700 25TB Bundle with 25 x 1TB 12G SAS MDL SC disks	16.596,00
P-I	M0S89A	D3700 50TB Bundle with 25 x 2TB 12G SAS MDL SC disks	29.171,00
D6020 JBOD	Bundles		
P-I	K2Q24A	HPE D6020 w/35 4TB 12G SAS 7.2K LFF (3.5in) Dual Port Midline HDD 140TB	42.719,00
P-I	K2Q25A	HPE D6020 w/70 4TB 12G SAS 7.2K LFF (3.5in) Dual Port Midline HDD 280TB	76.560,00
P-I	K2Q26A	HPE D6020 w/35 6TB 12G SAS 7.2K LFF (3.5in) Dual Port Midline HDD 210TB	49.245,00
P-I	K2Q27A	HPE D6020 w/70 6TB 12G SAS 7.2K LFF (3.5in) Dual Port Midline HDD 420TB	89.574,00
P-I	P8Y56A	HPE D6020 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port Midline HDD 280TB	61.364,00
P-I	P8Y57A	HPE D6020 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port Midline HDD 560TB	113.850,00
N	Q1H90A	HPE D6020 w/35 10TB 12G SAS 7.2K LFF (3.5in) Dual Port Midline HDD 350TB	78.144,00
N	Q1H91A	HPE D6020 w/70 10TB 12G SAS 7.2K LFF (3.5in) Dual Port Midline HDD 700TB	147.410,00



REP ΡN Description (in €)

For customers who are looking for a simple, agile and highly available virtualization system, the new Hyper Converged 250 family eliminates complex solution stacks. It combines a powerful Apollo server platform and mature StoreVirtual data services from Hewlett Packard Enterprise into one building block to simplify the delivery of virtualized servers and desktops. The Hyper Converged 250 family now supports VMware and Microsoft virtualization technologies, and continues to provide a turn-key virtualization solution for medium-sized businesses, enterprises, and laaS providers.

Designed from the ground up for the software-defined data center, the HC 250 enables a standardized, appliance approach to virtual server deployment, regardless of whether it is used as a primary virtualization platform in medium-sized businesses or as a dedicated resource pool for specific applications in the enterprise. Unlike other hyper-converged systems on the market, the HC 250 can be customized and ready for virtualized workloads in a few

All hardware and software components are pre-installed and pre-integrated by Hewlett Packard Enterprise and quick customization using the OneView InstantOn software enables faster time to value that is unique to the HC 250 family. After the initial installation, IT administrators manage their virtualized environment within VMware vCenter Server and OneView for vCenter, or with Microsoft System Center user interfaces and HPE OneView for System Center management integrations.

StoreVirtual technology that is built into the HC 250 matches the high-availability features of the hypervisor (VMware Fault Tolerance, VMware High Availability, or Windows Failover Cluster) from a storage perspective to provide enterprise-level availability for virtualized applications and services. HC 250 provides superior high-availability beyond a single system, New for the VMWare version :

- 2-node configuration support
- New disk capacity choices, All flash and hybrid
- Lower starting point for networking, with 4 x 1Gb NIC option single CPU version with Xeon E5-2660V3



click on the logo to configure the hyperconverged system of your choice

HyperConverged 250 system 13/97



	PN	Description	REP (in €)
		HyperConverged 250 System for VMWare	
	StoreVirtual Follow each Be aware:	steps show you how to configure an Convergedsystem 250-HC I I I I I I I I I I I I I I I I I I I	
Step 1 : S	elect your b	ase unit	
	 Rack Rail kit, Redundant F OneView inst Hardware call 	00 Chassis ant power supplies power cords	
	М0Т03В	HPE HC 250 System for VMware vSphere Sys	2.668,00
Step 2 : A	dd nodes, v	alid quantities are 2,3 or 4	
	- Smart Array I	70r gen9 server P440 with 4GB BBWC cache t per node (NOT USED)	0.700.00
Cton 2 - A	M0T04B	HPE Hyper Converged 250 Node	2.723,00
Step 3 . A	The first CPU	Inly the E5-2660 version is supported in a single CPU configuration is factory configured only. And ends with the extension -L21. The second CPU has a number but ends with -B21.	OH:
		ays order both CPU's (and count 2x the price !)	
		ays order both CPU's (and count 2x the price !) HPE XL1x0r Gen9 E5-2680v4 FIO Kit	2.310,00
	Meaning : alw		2.310,00 1.225,00
	Meaning : alw 850314-L21	HPE XL1x0r Gen9 E5-2680v4 FIO Kit	1.225,00
EOL	Meaning : alw 850314-L21 850300-L21	HPE XL1x0r Gen9 E5-2680v4 FIO Kit HPE XL1x0r Gen9 E5-2640v4 FIO Kit	1.225,00
EOL P-I EOL	Meaning : alw 850314-L21 850300-L21 850308-L21	HPE XL1x0r Gen9 E5-2680v4 FIO Kit HPE XL1x0r Gen9 E5-2640v4 FIO Kit HPE XL1x0r Gen9 E5-2660v4 FIO Kit	1.225,00 1.785,00 1.220,00
	Meaning: alw 850314-L21 850300-L21 850308-L21 793020-L21	HPE XL1x0r Gen9 E5-2680v4 FIO Kit HPE XL1x0r Gen9 E5-2640v4 FIO Kit HPE XL1x0r Gen9 E5-2660v4 FIO Kit HPE XL1x0r Gen9 Intel Xeon E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit	1.225,00 1.785,00
P-I EOL	Meaning: alw 850314-L21 850300-L21 850308-L21 793020-L21 793024-L21 793028-L21	HPE XL1x0r Gen9 E5-2680v4 FIO Kit HPE XL1x0r Gen9 E5-2640v4 FIO Kit HPE XL1x0r Gen9 E5-2660v4 FIO Kit HPE XL1x0r Gen9 Intel Xeon E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit	1.225,00 1.785,00 1.220,00 1.800,00
P-I EOL	Meaning: alw 850314-L21 850300-L21 850308-L21 793020-L21 793024-L21 793028-L21	HPE XL1x0r Gen9 E5-2680v4 FIO Kit HPE XL1x0r Gen9 E5-2640v4 FIO Kit HPE XL1x0r Gen9 E5-2640v4 FIO Kit HPE XL1x0r Gen9 E5-2660v4 FIO Kit HP XL1x0r Gen9 Intel Xeon E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit uired memory for each node.	1.225,00 1.785,00 1.220,00 1.800,00
P-I EOL P-I EOL Step 4 : S	Meaning: alw 850314-L21 850300-L21 850308-L21 793020-L21 793024-L21 793028-L21	HPE XL1x0r Gen9 E5-2680v4 FIO Kit HPE XL1x0r Gen9 E5-2640v4 FIO Kit HPE XL1x0r Gen9 E5-2640v4 FIO Kit HPE XL1x0r Gen9 E5-2660v4 FIO Kit HP XL1x0r Gen9 Intel Xeon E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit uired memory for each node.	1.225,00 1.785,00 1.220,00 1.800,00 2.315,00
P-I EOL Step 4 : S for v4 CPU's	Meaning: alw 850314-L21 850300-L21 850308-L21 793020-L21 793024-L21 793028-L21 elect the rec Select 4.8 or 1	HPE XL1x0r Gen9 E5-2680v4 FIO Kit HPE XL1x0r Gen9 E5-2640v4 FIO Kit HPE XL1x0r Gen9 E5-2640v4 FIO Kit HPE XL1x0r Gen9 E5-2660v4 FIO Kit HP XL1x0r Gen9 Intel Xeon E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit autired memory for each node. 16 DIMMs . Each node must have the same amount of memory.	1.225,00 1.785,00 1.220,00 1.800,00
P-I EOL P-I EOL Step 4 : S for v4 CPU's	Meaning: alw 850314-L21 850300-L21 850308-L21 793020-L21 793024-L21 793028-L21 elect the rec Select 4.8 or 1	HPE XL1x0r Gen9 E5-2680v4 FIO Kit HPE XL1x0r Gen9 E5-2640v4 FIO Kit HPE XL1x0r Gen9 E5-2640v4 FIO Kit HPE XL1x0r Gen9 E5-2660v4 FIO Kit HP XL1x0r Gen9 Intel Xeon E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit autired memory for each node. 16 DIMMs . Each node must have the same amount of memory.	1.225,00 1.785,00 1.220,00 1.800,00 2.315,00
P-I EOL P-I EOL Step 4 : S for v4 CPU's P-I For v3 CPU's	Meaning: alw 850314-L21 850300-L21 850308-L21 793020-L21 793024-L21 793028-L21 elect the rec Select 4.8 or 1 805351-B21 dd the Netw	HPE XL1x0r Gen9 E5-2680v4 FIO Kit HPE XL1x0r Gen9 E5-2640v4 FIO Kit HPE XL1x0r Gen9 E5-2660v4 FIO Kit HPE XL1x0r Gen9 Intel Xeon E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit Auired memory for each node. 16 DIMMs . Each node must have the same amount of memory. HPE 32GB 2Rx4 PC4-2400T-R Kit HPE 32GB (1x32GB) Registered DDR4-2133 PC4-17000 CL15 Dual Rank Memory Kit ork interfaces, each node requires one kit.	1.225,00 1.785,00 1.220,00 1.800,00 2.315,00
P-I EOL P-I EOL Step 4 : S for v4 CPU's P-I For v3 CPU's	Meaning: alw 850314-L21 850300-L21 850308-L21 793020-L21 793024-L21 793028-L21 elect the rec Select 4.8 or 1	HPE XL1x0r Gen9 E5-2680v4 FIO Kit HPE XL1x0r Gen9 E5-2640v4 FIO Kit HPE XL1x0r Gen9 E5-2660v4 FIO Kit HPE XL1x0r Gen9 Intel Xeon E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.5GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.5GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.5GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.5GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.5GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.5GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.5GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.5GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.5GHz/10-core/25MB/105W) FIO Processor Kit HP XL1x0r Gen9 Intel Xeon E5-2660v3 (2.5GHz/10-core/25MB/105W) FIO Processor Kit	1.225,00 1.785,00 1.220,00 1.800,00 2.315,00

HyperConverged 250 system 14/97



	PN	Description	REP (in €)
Step 6 :	Select the dis	sk configuration.	
		ose between four disk configurations: 1x SAS only, 2x Hybrid SSD+SAS or & x ach node requires the same configuration!!	
	781518-B21	HPE 1,2TB SFF 12G SAS 10k rpm HotPlug SC Enterprise hard drive (2.5")	655,00
		Order 6 x 1.2TB/Node for SAS ; 4 x 1.2TB node for Hybrid configurations.	
N	872344-B21	HPE 480GB SATA 6G MU SFF SC DS SSD	845,00
	•	Order 2 x 480GB SSD / Node for hybrid configurations, each disk provides 400GB net capacity	
N	872348-B21	HPE 960GB SATA 6G MU SFF SC DS SSD	1.585,00
	•	Order 2 x 960GB SSD / Node for hybrid configurations, each disk provides 800GB net capacity	
N	872352-B21	HPE 1.92TB SATA 6G MU SFF SC DS SSD	3.085,00
	•	Order 6 x 1,92TB SSD / Node for All-Flash configurations, each disk provides 1,6TB net	

ep 7 : Add the required Software Licenses and preloads

Required per (1) HPE Hyper Converged 250 Node, included LTU for StoreVirtual Software and other HPE software components. Pre-integrates VMware vSphere on HC 250 node; valid VMware vSphere and vCenter licenses are required; see note below.

VMware vSphere licenses are required and must be purchased for CS 250-HC StoreVirtual. Licenses can be purchased as part of the same order as ConvergedSystem 250-HC StoreVirtual; existing licenses (VMware Enterprise License Agreement (ELA) or VMware vCloud Air Network Program) has be used, supports vSphere Enterprise, vSphere Enterprise Plus or Horizon on the ConvergedSystem 250-HC StoreVirtual. When quoting VMware Horizon for CS 250-HC StoreVirtual, only the vSphere hypervisor components are pre-integrated.

components are pre-integrated.

Ordering systems automatically add 8x BD715A (vSphere Enterprise Plus 1P 3yr Service and Subscription) and 1x BD723A (VMware vCenter) to a ConvergedSystem 250-HC StoreVirtual order.

VMware vSphere licenses are required and must be purchased for CS 250-HC StoreVirtual. Licenses can be purchased as part of the same order as ConvergedSystem 250-HC StoreVirtual; existing licenses (VMware Enterprise License Agreement (ELA) or VMware vCloud Air Network Program) can be used. supports vSphere Enterprise Plus or Horizon on the ConvergedSystem 250-HC StoreVirtual. When quoting VMware Horizon for CS 250-HC StoreVirtual, only the vSphere hypervisor components are pre-integrated.

Ordering systems automatically add 8x BD715A (vSphere Enterprise Plus 1P 3yr Service and

Ordering systems automatically add 8x BD715A (vSphere Enterprise Plus 1P 3yr Service and Subscription) and 1x BD723A (vMware vCenter) to a ConvergedSystem 250-HC StoreVirtual order.

VMware Server Virtualiza	tion - including 24x7 support & subscription	
P9U41AAE	VMw vCenter Server Std for vSph 3y E-LTU	9.125,00
P9U42AAE	VMw vCenter Server Std for vSph 5y E-LTU	11.195,00
P9A82AAE	VMware vSphere ROBO Std 25VM 3yr E-LTU	4.375,00
P9A83AAE	VMware vSphere ROBO Std 25VM 5yr E-LTU	5.360,00
P9A85AAE	VMware vSphere ROBO Adv 25VM 3yr E-LTU	6.550,00
P9A86AAE	VMware vSphere ROBO Adv 25VM 5yr E-LTU	8.030,00
BD711AAE	VMw vSphere Std 1P 3yr E-LTU	1.520,00
BD512AAE	VMw vSphere Std 1P 5yr E-LTU	1.920,00
BD715AAE	VMw vSphere EntPlus 1P 3yr E-LTU	5.110,00
BD514AAE	VMw vSphere EntPlus 1P 5yr E-LTU	6.270,00
You need t	to add 1 license of vCenter with a choice of 3 or 5 years support	
VMware Client Virtualizat	ion - including 24x7 support & subscription	
P9T49AAE	VMw Horizon Std 10pk 3yr CU E-LTU	3.745,00
P9T50AAE	VMw Horizon Std 10pk 5yr CU E-LTU	4.595,00
P9T55AAE	VMw Horizon Adv 10pk 3yr CU E-LTU	6.000,00
P9T56AAE	VMw Horizon Adv 10pk 5yr CU E-LTU	7.360,00
P9T61AAE	VMw Horizon Ent 10pk 3yr CU E-LTU	8.630,00
P9T62AAE	VMw Horizon Ent 10pk 5yr CU E-LTU	10.585,00
VMware Client Virtualizat	ion standalone hypervisor - including 24x7 support & subscription	•
BD501AAE	VMw vSphere Desktop 100VM 3yr Nm E-LTU	10.995,00
BD701AAE	VMw vSphere Desktop 100VM 5yr E-LTU	13.285,00
Step 8 : Expand yo	ur base warranty with Carepacks : please consult your	reseller or distributor.

HyperConverged 250 system 15/97



	PN	Description	REP (in €)
		onverged 250 system for Windows Cloud Platform Standard teps show you how to configure an Convergedsystem 250-HC	
	Be aware : w	step carefully and you will end up with a decent budgettary idea. when making an actual order, make sure you make the configuration in (your distributor can do that for you). Ordering is CTO only.	
Step 1 : Se	elect your ba Base units cont		
	1 x Apollo 200 Dual redundar Rack Rail kit, p Redundant Fa OneView insta Hardware carr	0 Chassis nt power supplies power cords ns	
	N9X97A	HPE HC 250 for Microsoft CPS Standard	7.122,00
Step 2 : Ac	Comes with : - ProLiant SL1 - Smart Array	Ilid quantities are 3 or 4 170r gen9 server P440 with 4GB BBWC cache rt per node (NOT USED)	
	M0T04B	HPE Hyper Converged 250 Node	4.134,00
-		PUs need to be ordered in pairs : 1 x -L21 + 1 x B21 part .; same price)	
	850300-B21	HPE XL1x0r Gen9 E5-2640v4 Kit	1.225,00
	850314-B21 793020-B21	HPE XL1x0r Gen9 E5-2680v4 Kit HP XL1x0r Gen9 Intel Xeon E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit	2.310,00 1.220,00
P-I	793028-B21	HP XL1x0r Gen9 Intel Xeon E5-2680v3 (2.5GHz/12-core/30MB/120W) Processor Kit	2.315,00
Step 4 : Se	elect the requ	uired memory for each node.	
for v4 CPU's	512GB memor Each node rec	ry. quires the same amount of memory! HPE 32GB 2Rx4 PC4-2400T-R Kit	610,00
For v3 CPU's	1000001 221		0.10,00
P-I	728629-B21	HPE 32GB (1x32GB) Registered DDR4-2133 PC4-17000 CL15 Dual Rank Memory Kit	690,00
Step 5 : Ac		Network interfaces, each node requires one kit.	
	Warning: the	capable 10GbE networking infrastructure is required. In network card is equipped with SFP+ ports, but the actual SFP's need to be parately (those depend on the network side used)	
	665243-B21	HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	640,00
Step 6 : Se		k configuration.	
		se between two disk configurations : SAS only or Hybrid SSD+SAS. Each node ame configuration !!	
	781518-B21	HPE 1,2TB SFF 12G SAS 10k rpm HotPlug SC Enterprise hard drive (2.5") Order 6 x 1.2TB/Node for SAS; 4 x 1.2TB node for Hybrid configurations.	655,00
	791034-B21	HPE 1.8TB SAS 10K SFF SC 512e HDD	1.000,00
N	872344-B21	Order 6 x 1.8TB/Node for SAS; 4 x 1.8TB node for Hybrid configurations. HPE 480GB SATA 6G MU SFF SC DS SSD	845,00
		Order 2 x 480GB SSD / Node for hybrid configurations, each disk provides 400GB net capacity	
N	872348-B21	HPE 960GB SATA 6G MU SFF SC DS SSD Order 2 x 960GB SSD / Node for hybrid configurations, each disk provides 800GB net	1.585,00
N	872352-B21	capacity HPE 1.92TB SATA 6G MU SFF SC DS SSD	3.085,00
	5.2002 BZ1	Order 6 x 1,92TB SSD / Node for All-Flash configurations, each disk provides 1,6TB net capacity	3.300,00
Step 7 : Ac	dd the Softw		
Sten 8 · Ac	P8Z24A	HPE HC 250 SW for Microsoft CPS Std LTU ed Windows ROK license	6.641,00
	rer 2012 R2 Data	center Edition 2P : one required for each node !	
	748922-021	Microsoft Windows Server 2012 R2 Datacenter Reseller Option Kit en/nl/sv/pt/tr SW	4.600,00
1	748922-B21	Microsoft Windows Server 2012 R2 Datacenter Reseller Option Kit Eng/French/Italian/German/Spanish SW	4.600,00

HyperConverged 250 system 16/97



PN Description REP (in €)

For customers who are looking for a configurable, scalable, agile and highly available hyper converged virtualization system, the new HPE Hyper Converged 380 (HC 380) delivers a simple solution stack with extended flexibility and manageability. It builds on the powerful, industry standard HPE ProLiant DL 380 Gen9 server platform and is combined with VMware vSphere. Using the new HPE OneView User Experience (UX) to add full lifecycle management, VM provisioning and updates in a single pane of glass provides a unified, global experience. The HPE Hyper Converged 380 delivers a turn-key virtualization solution for medium-sized businesses, enterprises, and laaS providers.

Designed from the ground up for the software-defined data center, the HC 380 enables a standardized approach to virtual server deployment, available in three workload configurations: General Virtualization, CloudSystem and a Virtual Desktop Infrastructure (VDI). VDI is offered as a reference architecture. Unlike many hyper converged systems, the HC 380 can be customized at the time of order and will be ready for virtualized workloads in a few simple clicks.

All hardware and software components are pre-installed and pre-integrated by at the factory. A quick customization using the HPE OneView User Experience (UX) software enables faster time to value unique to the HC 380. After the initial installation, IT administrators manage their virtualized environment within HPE OneView User Experience (UX) and VMware vCenter Server.

What's New

- Support for Intel Xeon E5-26xxV4 CPU's
- Added Full flash storage blocks
- NVideo M60 GPU
- Added virtualisation and VDI starter kits
- Software : HC380 v1.1 software, now also supports importing VMs created in vCenter, update and patch $\,$ ESX and local vCenter, support for vDS

Virtualisation:







<u>Private Cloud</u>

HyperConverged 380 system 17/97



PN	Description	REP (in €)
	HyperConverged 380 System for VMWare	
The below	atom a harrow have to a self-own a library Operation of OOO for Vietnalian Co.	
	steps show you how to configure a HyperConverged 380 for Virtualisation	
	n step carefully and you will end up with a decent budgettary idea.	
	when making an actual order, make sure you make the configuration in	
SalesBullde	er (your distributor can do that for you). Ordering is CTO only.	
01 1 11		
	a base starter kit and expand on that its come ready-to implement, only need to add the support and VMware licenses.	
• DL380 24SF		
 Rack Rail kit Redundant F 	s, power cords	
	rries a standard 3 year , 9x5 NBD onsite warranty including parts and labor.	
Software car	ries the 90 day media defect warranty, and 1 year 9x5 software support.	
Q0D47A	HPE HC380 2N Virtualization Starter Kit	52.510
	Contains: 2 x D380 server, each with: - CPU - 2620v3 CPU - 6 Core	
	- Mem - 128 GB/node - 256GB Total	
	- 1 GB Network Configuration	
	- 1 x 3.48TB Hybrid Mixed-Use Storage Kit	
	- Power Supply - 2 x 500W	
Q0D48A	HPE HC380 3N Virtualization Medium Kit	104.232
	Contains: 3 x D380 server, each with: - CPU - 2640v3 CPU - 8 Core	
	- CPU - 2640V3 CPU - 8 Core - Mem - 256 GB/node - 768GB Total	
	- 10 GB Network Configuration	
	- 2 x 3.48TB Hybrid Mixed-Use Storage Kit	
	- Power Supply - 2 x 800W	
Q0D49A	HPE HC380 4-node Virtualization Full Kit	174.020
	Contains: 4 x D380 server, each with:	
	- CPU - 2680v3 CPU - 12 Core - Mem - 384 GB/node - 1.5TB Total	
	- 10 GB Network Configuration	
	- 3 x 3.48TB Hybrid Mixed-Use Storage Kit	
	- Power Supply - 2 x 800W	
. Coloot vour		
. Select your	base unit and the use case personality	
Base units cor	ntains :	
Base units cor • 1 x DL380 24	ntains :	
Base units cor	ntains : ISFF Chassis power cords	
Base units cor 1 x DL380 24 Rack Rail kit, Redundant F Hardware ca	ntains : ISFF Chassis power cords ans rries a standard 3 year , 9x5 NBD onsite warranty including parts and labor.	
Base units cor 1 x DL380 24 Rack Rail kit, Redundant F Hardware ca	ntains: ISFF Chassis power cords ans	
Base units cor 1 x DL380 24 Rack Rail kit Redundant F Hardware car	ntains : ISFF Chassis power cords ans rries a standard 3 year , 9x5 NBD onsite warranty including parts and labor.	
Base units cor 1 x DL380 24 Rack Rail kit Redundant F Hardware ca Software car	ntains: ISFF Chassis , power cords ans rries a standard 3 year , 9x5 NBD onsite warranty including parts and labor. rries the 90 day media defect warranty, and 1 year 9x5 software support. add the correct personality SKU as that will determine the factory preloads	
Base units cor 1 x DL380 2² Rack Rail kit Redundant F Hardware ca Software car Make sure to	htains: ISFF Chassis , power cords ans rries a standard 3 year , 9x5 NBD onsite warranty including parts and labor. rries the 90 day media defect warranty, and 1 year 9x5 software support. add the correct personality SKU as that will determine the factory preloads HPE HC380 Cluster Node	
Base units cor 1 x DL380 24 Rack Rail kit Redundant F Hardware ca Software car Make sure to P9D74A P9D74A#001	htains: ISFF Chassis power cords ans rries a standard 3 year , 9x5 NBD onsite warranty including parts and labor. rries the 90 day media defect warranty, and 1 year 9x5 software support. add the correct personality SKU as that will determine the factory preloads HPE HC380 Cluster Node HPE HC380 Cluster Node HPE HC380 General Virtualization SW	15.212 1
Base units cor 1 x DL380 22 Rack Rail kit Redundant F Hardware ca Software car Make sure to P9D74A P9D74A#001 P9D74A#002	htains: ISFF Chassis power cords ans rries a standard 3 year , 9x5 NBD onsite warranty including parts and labor. rries the 90 day media defect warranty, and 1 year 9x5 software support. add the correct personality SKU as that will determine the factory preloads HPE HC380 Cluster Node HPE HC380 Cluster Node HPE HC380 General Virtualization SW HPE HC380 Cluster Node HPE HC380 VDI SW	1
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Base units cor 1 x DL380 2² Rack Rail kit Redundant F Hardware ca Software car P9D74A P9D74A#001 P9D74A#002 P9D74A#003 Add nodes, V Base units cor 1 x DL380 2² Rack Rail kit Redundant F Hardware ca P9D74A#010 P9D74A#010 P9D74A#010 P9D74A#010 P9D74A#010 P9D74A#010 P9D74A#002 P9D74A#003 Add the HPE This is the ba only the actus (1) VMware vi (1) VMware vi (1) VMware vi (1) HPE Cloud (1) HPE C	Intains: ISFF Chassis power cords ans rries a standard 3 year , 9x5 NBD onsite warranty including parts and labor. rries the 90 day media defect warranty, and 1 year 9x5 software support. add the correct personality SKU as that will determine the factory preloads HPE HC380 Cluster Node	15.212 15.212 1 1 1 450

HyperConverged 380 system 18/97



	PN	Description	REP (in €)
ep 4b : /	Add the requ	uired VMWare Horizon Licenses	
		rizon is available in 10 quantity packs for Concurrent Users (CCU) or	
	Named user	rs. orizon Standard includes VMware Horizon, VMware ThinApp, VMware	
		sktop and VMware vCenter Desktop.	
		orizon Advanced includes VMware Identity Manager Std, Mirage, Virtual	
		nosted apps, ThinApp, vSphere Desktop, and vCenter Desktop	
		prizon Enterprise components include Mirage, VMware App	
	,	Mware User Environment Manager, VMware Virtual SAN, RDS Hosted typ, VMware Identity Manager Std, vRealize Operations for Horizon,	
		sktop, and vCenter Desktop.	
ı ordered		tion, please add one of the following as well	
	P9T49AAE	VMw Horizon Std 10pk 3yr CU E-LTU	3.745,
	P9T55AAE	VMw Horizon Adv 10pk 3yr CU E-LTU	6.000,
	P9T61AAE	VMw Horizon Ent 10pk 3yr CU E-LTU	8.630,
	P9T52AAE	VMw Horizon Adv 10pk 3yr NU E-LTU	3.745,
	P9T58AAE	VMw Horizon Ent 10pk 3yr NU E-LTU	5.260,
4c : /	Add the requ	uired HPE Cloud system 9 Licenses	
	These Licer	nse are per physycal Node. 1 license for each node in a cluster	
	F9D70BAE	HPE CloudSystem Foundation 1-Server 1yr 24x7 Support E-LTU	1.452,
	F9D69BAE	HPE CloudSystem Enterprise 1-Server 1yr 24x7 Support E-LTU	3.873,
5 : A	dd CPUs. E	very node requires 2 CPU's !!!	
		ends with the extension -L21. The second CPU has the same part number but ends	
		ke sure your first CPU on every node ends with -L21. ays order both CPU's (and count 2x the price !)	
	wearing : aiw	ays order both CPO's (and count 2x the price !)	
	Nodes always	need to be configured with 2 CPU's !!!	
Voon EE	-26xx V4 CPUs		
Veoli E2-		LIDE DI 200 O0 EF 0000-4 I//	C F 700
	817967-B21	HPE DL380 Gen9 E5-2699v4 Kit	€ 5.700
P-I	817965-B21	HPE DL380 Gen9 E5-2698v4 Kit	€ 4.590
P-I	817955-B21 817963-B21	HPE DL380 Gen9 ES-2697Av4 Kit HPE DL380 Gen9 E5-2697v4 Kit	€ 4.140
P-I	817961-B21	HPE DL380 Gen9 E5-2695v4 Kit	€ 3.160
	817959-B21	HPE DL380 Gen9 E5-2690v4 Kit	€ 2.80
	817957-B21	HPE DL380 Gen9 E5-2687Wv4 Kit	€ 2.75
	817953-B21	HPE DL380 Gen9 E5-2683v4 Kit	€ 2.400
	817951-B21	HPE DL380 Gen9 E5-2680v4 Kit	€ 2.310
	817947-B21	HPE DL380 Gen9 E5-2667v4 Kit	€ 2.68
	817945-B21 817943-B21	HPE DL380 Gen9 E5-2660v4 Kit	€ 1.78
	817939-B21	HPE DL380 Gen9 E5-2650v4 Kit HPE DL380 Gen9 E5-2643v4 Kit	€ 2.090
	817937-B21	HPE DL380 Gen9 E5-2640v4 Kit	€ 1.225
	817933-B21	HPE DL380 Gen9 E5-2630v4 Kit	€ 910
P-I	817931-B21	HPE DL380 Gen9 E5-2630Lv4 Kit	€ 840
	817927-B21	HPE DL380 Gen9 E5-2620v4 Kit	€ 645
P-I	817925-B21	HPE DL380 Gen9 E5-2609v4 Kit	€ 470
(eon E5-	-26xx V3 CPUs		
P-I	781915-B21	Intel Xeon E5-2699v3 (2.3GHz-45MB/DDR4-2133 18C, 145W) Processor Option Kit	C E E00
			€ 5.590
	781913-B21	(DL380Gen9) Intel Xeon F5-2698v3 (2.3GHz-40MB/DDR4-2133.16C, 135W) Processor Ontion Kit	
	781913-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9)	
P-I	781913-B21 719054-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit	€ 4.500
	719054-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9)	€ 4.500
P-I		Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit	€ 4.500 € 3.600
	719054-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit	€ 4.500 € 3.600
P-I P-I	719054-B21 762760-B21 719044-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9)	€ 4.500 € 3.600 € 3.100
P-I	719054-B21 762760-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit	€ 4.500 € 3.600 € 3.100
P-I P-I	719054-B21 762760-B21 719044-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697W3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687W3 (3.1GHz-25MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-26	€ 4.500 € 3.600 € 3.100 € 2.750
P-I P-I P-I	719054-B21 762760-B21 719044-B21 762768-B21 719055-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Intel Xeon E5-2683v3 (2GHz-3	€ 4.500 € 3.600 € 3.100 € 2.750 € 2.800
P-I P-I	719054-B21 762760-B21 719044-B21 762768-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697W3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687W3 (3.1GHz-25MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-26	€ 4.500 € 3.600 € 3.100 € 2.750 € 2.800
P-I P-I P-I	719054-B21 762760-B21 719044-B21 762768-B21 719055-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2GHz-35MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor	€ 4.500 € 3.600 € 3.100 € 2.750 € 2.800 € 2.350
P-I P-I P-I P-I P-I P-I	719054-B21 762760-B21 719044-B21 762768-B21 719055-B21 762766-B21 719046-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Intel Xeon E5-2670v3 (2.3GHz-	€ 4.500 € 3.600 € 3.100 € 2.750 € 2.800 € 2.350 € 2.263
P-I P-I P-I P-I	719054-B21 762760-B21 719044-B21 762768-B21 719055-B21 762766-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-20MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit	€ 4.500 € 3.600 € 3.100 € 2.750 € 2.800 € 2.350 € 2.268
P-I P-I P-I	719054-B21 762760-B21 719044-B21 762768-B21 719055-B21 762766-B21 719046-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Intel Xeon E5-2670v3 (2.3GHz-	€ 4.500 € 3.600 € 3.100 € 2.750 € 2.800 € 2.265 € 2.265
P-1 P-1 P-1 P-1 P-1 P-1 P-1 P-1	719054-B21 762760-B21 719044-B21 762768-B21 719055-B21 762766-B21 719046-B21 719056-B21 762764-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processo	€ 4.500 € 3.600 € 3.100 € 2.750 € 2.800 € 2.261 € 2.630 € 1.750
P-I P-I P-I P-I P-I P-I	719054-B21 762760-B21 719044-B21 762768-B21 719055-B21 762766-B21 719046-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (3.2GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (3.2GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processo	€ 4.500 € 3.600 € 3.100 € 2.750 € 2.800 € 2.261 € 2.630 € 1.750
P-I	719054-B21 762760-B21 719044-B21 762768-B21 719055-B21 762766-B21 719056-B21 762764-B21 719048-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-20MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor	€ 4.500 € 3.600 € 3.100 € 2.750 € 2.800 € 2.265 € 2.265 € 2.100 € 1.450
P-I P-I P-I P-I P-I P-I P-I P-I	719054-B21 762760-B21 719044-B21 762768-B21 719055-B21 762766-B21 719046-B21 719056-B21 762764-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (3.2GHz-20MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-30MB/DDR4-2133 12C, 65W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-30MB/DDR4-2133 12C, 65W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-30MB/DDR4-2133 12C, 65W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-30MB/DDR4-2133 12C, 65W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-30MB/DDR4-2133 12C, 65W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-30MB/DDR4-2133 12C, 65W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-30MB/DDR4-2133 12C, 65W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-30MB/DDR4-2133 12C, 65W) Processor Optio	€ 4.500 € 3.600 € 3.100 € 2.750 € 2.800 € 2.265 € 2.265 € 2.100 € 1.450
P-I	719054-B21 762760-B21 719044-B21 762768-B21 719055-B21 762766-B21 719056-B21 762764-B21 719048-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.5GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.3GHz-25MB/DDR4-2133 12C, 65W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Optio	€ 4.500 € 3.600 € 3.100 € 2.750 € 2.800 € 2.260 € 2.100 € 1.750 € 1.680
P-I	719054-B21 762760-B21 719044-B21 762768-B21 719055-B21 719056-B21 719056-B21 762764-B21 719048-B21 719048-B21 719059-B21 719057-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2670v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-20MB/DDR4-2133 8C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-20MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-20MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (1.8GHz-20MB/DDR4-2133 6C, 135W) Processor Opti	€ 5.590 € 4.500 € 3.600 € 3.600 € 2.750 € 2.800 € 2.260 € 2.400 € 2.630 € 1.450 € 1.450 € 2.050 € 1.330
P-I	719054-B21 762760-B21 719044-B21 762768-B21 719055-B21 719046-B21 719056-B21 762764-B21 719048-B21 719048-B21 719059-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.3GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.5GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.3GHz-25MB/DDR4-2133 12C, 65W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Optio	€ 4.500 € 3.600 € 3.100 € 2.750 € 2.800 € 2.260 € 2.100 € 1.750 € 1.680
P-I	719054-B21 762760-B21 719044-B21 762768-B21 719055-B21 719056-B21 719056-B21 762764-B21 719048-B21 719048-B21 719059-B21 719057-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 10C, 160W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2683v3 (2GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.6GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2640v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (3.4GHz-20MB/DDR4-2136 6C, 90W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (3.4GHz-20MB/DDR4-1866 8C, 90W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (3.4GHz-20MB/DDR4-1866 8C, 55W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (3.4GHz-20MB/DDR4-1866 8C, 55W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (3.4GHz-20MB/DDR4-1866 8C, 55W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (3.4GHz-20MB/DDR4-1866 8C, 55W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (3.4GHz-20MB/DDR4-1866 8C, 55W) Processor Option Kit (DL38	€ 4.500 € 3.600 € 3.100 € 2.750 € 2.800 € 2.260 € 2.100 € 1.750 € 1.680 € 2.050 € 1.330
P-I	719054-B21 762760-B21 719044-B21 762768-B21 719055-B21 719056-B21 719056-B21 719056-B21 719059-B21 719059-B21 719058-B21	Intel Xeon E5-2698v3 (2.3GHz-40MB/DDR4-2133 16C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2697v3 (2.6GHz-35MB/DDR4-2133 14C, 145W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2695v3 (2.3GHz-35MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2690v3 (2.6GHz-30MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 12C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2687Wv3 (3.1GHz-25MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2680v3 (2.5GHz-30MB/DDR4-2133 14C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.5GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2667v3 (3.2GHz-30MB/DDR4-2133 12C, 120W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2660v3 (2.5GHz-20MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.5GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (2.3GHz-25MB/DDR4-2133 10C, 105W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2650v3 (3.4GHz-25MB/DDR4-2133 12C, 65W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2640v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2640v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2640v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2640v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2640v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2640v3 (3.4GHz-20MB/DDR4-2133 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2640v3 (3.4GHz-20MB/DDR4-2136 6C, 135W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2640v3 (3.6Ghz-20MB/DDR4-2166 6C, 90W) Processor Option Kit (DL380Gen9) Intel Xeon E5-2640v3 (3.6Ghz-20MB/DDR4-2166 6C, 90W) Processor Option Ki	€ 4.500 € 3.600 € 3.100 € 2.750 € 2.800 € 2.350 € 2.265 € 1.450 € 1.450 € 1.680 € 2.050

HyperConverged 380 system 19/97



	PN	Description	REP (in €)
	The following r	memory combinations are supported :	
	128GB = 8 x 16	· -	
	256GB = 8 x 32	· -	
	384GB = 8 x 16 512GB = 16 x 3		
	768GB = 24 x 3		
	1024GB = 16 x		
	1536GB = 48 x	64GB	
	Each node mus	t have the same amout of memory !	
P-I	836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	330,00
P-I	805351-B21	HPE 32GB 2Rx4 PC4-2400T-R Kit	610,00
P-I	805358-B21	HPE 64GB 4Rx4 PC4-2400T-L Kit	1.670,00
for v3 CPU's	726719-B21	UDF 400D (4400D) Decision DDD4 0400 D04 47000 0145 Decision Decision DD4 0400 D04 47000 0145 Decision	045.00
P-I		HPE 16GB (1x16GB) Registered DDR4-2133 PC4-17000 CL15 Dual Rank Memory Kit	315,00
P-I P-I	728629-B21 726724-B21	HPE 32GB (1x32GB) Registered DDR4-2133 PC4-17000 CL15 Dual Rank Memory Kit HPE 64GB (1x64GB) Load Reduced DDR4-2133 PC4-17000 CL15 Quad Rank Memory	690,00
			1.775,00
Step 7 : Ad		ork interfaces, each node requires one kit.	
	665243-B21	HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	640,00
	700699-B21	HPE Ethernet 10Gb 2-port 561FLR-T Adapter	760,00
	629135-B22	HPE Ethernet 1Gb 4-port 331FLR Adapter	330,00

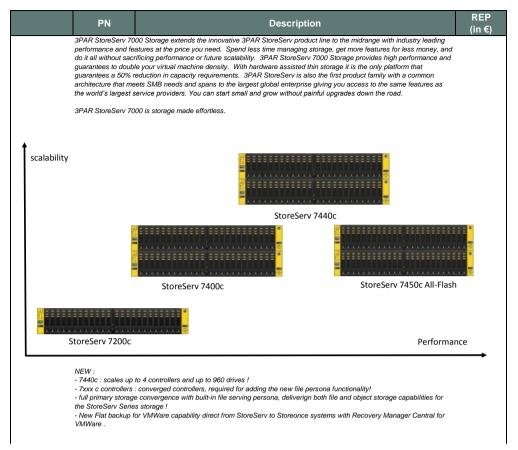
HyperConverged 380 system 20/97



	PN			Des	cription				REP (in €)
ep 8 : 8	Select the dis	k configuratio	n.						
			10K SAS dis	ks	M	ixed Use S	SDs	Write II	ntensive SSDs
Ava	ailable disk config	urations 600GE		1.2TB	480GB	800GB	1.92TB	400GB	800GB
	TB Hybrid Write in		6x	T	T			2x	
	TB Hybrid Write ir		- CA	6x					2x
	4TB Hybrid Mixed			1	2x				
	8TB Hybrid Mixed		6x		2x				
	TB Hybrid Mixed U		- CA	6x		2x			
	TB Hard Disk	8x		U.					
	TB Hard Disk	<u> </u>	8x						
	TB Hard Disk		- OA	8x					
	TB SSD Flash only			OX.		8x			
	4TB SSD Flash only			1		οx	8x		
	blocks.	ties based on the a		for each n	ode. All n	odes requ	ire identica	al storage	•
rd disk	blocks. Max. 3 storaç	ties based on the a		for each n	ode. All n	odes requ	ire identica	al storage	•
rd disk	blocks.					·		al storage	65
rd disk	blocks. Max. 3 storag	ge blocks per node	2G SAS 10k i	rpm HotPl	ug SC Ente	rprise hard	drive (2.5")	al storage	
rd disk	blocks. Max. 3 storag Drives 781518-B21	ge blocks per node	2G SAS 10k 6AS 10K rpm	rpm HotPl HotPlug S	ug SC Ente SC Enterpris	rprise hard e hard driv	drive (2.5") e (2.5")	al storage	65
rd disk	blocks. Max. 3 storag Drives 781518-B21 785069-B21 781516-B21	ge blocks per node HPE 1,2TB SFF 1: 900GB SFF 12G S	2G SAS 10k 6AS 10K rpm	rpm HotPl HotPlug S	ug SC Ente SC Enterpris	rprise hard e hard driv	drive (2.5") e (2.5")	al storage	65
	blocks. Max. 3 storag Drives 781518-B21 785069-B21 781516-B21	ge blocks per node HPE 1,2TB SFF 1: 900GB SFF 12G S	2G SAS 10k i SAS 10K rpm SAS 10K rpm	rpm HotPl HotPlug S HotPlug S	ug SC Ente SC Enterpris SC Enterpris	rprise hard e hard driv	drive (2.5") e (2.5")	al storage	65
D Drive	Max. 3 storag Drives 781518-B21 785069-B21 781516-B21	ge blocks per node HPE 1,2TB SFF 1: 900GB SFF 12G S 600GB SFF 12G S	2G SAS 10k i SAS 10K rpm SAS 10K rpm	rpm HotPli HotPlug S HotPlug S	ug SC Ente SC Enterpris SC Enterpris	rprise hard e hard driv	drive (2.5") e (2.5")	al storage	65 60 45
D Drive	blocks. Max. 3 storage Drives 781518-B21 785069-B21 781516-B21 98 872344-B21	ge blocks per node HPE 1,2TB SFF 1: 900GB SFF 12G S 600GB SFF 12G S	2G SAS 10k i SAS 10K rpm SAS 10K rpm 4 GG MU SFF	rpm HotPl HotPlug S HotPlug S SC DS SS	ug SC Ente SC Enterpris SC Enterpris	rprise hard e hard driv	drive (2.5") e (2.5")	al storage	65 60 45
D Drive	blocks. Max. 3 storage Prives 781518-B21 785069-B21 781516-B21 785069-B21 832414-B21 832414-B21	HPE 1,2TB SFF 1: 900GB SFF 12G S 600GB SFF 12G S HPE 480GB SATA	2G SAS 10k SAS 10K rpm SAS 10K rpm A 6G MU SFF A MU SFF SC A MU SFF SC	rpm HotPli HotPlug S HotPlug S S SC DS SS S SSD	ug SC Ente SC Enterpris SC Enterpris	rprise hard e hard driv	drive (2.5") e (2.5")	al storage	65 60 45 84
D Drive N P-I P-I	blocks. Max. 3 storag Drives 781518-B21 785069-B21 78516-B21 98 872344-B21 804625-B21 872352-B21	HPE 1,2TB SFF 1: 900GB SFF 12G S 600GB SFF 12G S HPE 480GB SATA HPE 480GB SATA HPE 800GB SATA HPE 1.92TB SATA	2G SAS 10k rpm SAS 10K rpm SAS 10K rpm A 6G MU SFF A MU SFF SC A 6G MU SFF	rpm HotPli HotPlug S HotPlug S S SC DS SS S SSD S SSD	ug SC Ente SC Enterpris SC Enterpris	rprise hard e hard driv	drive (2.5") e (2.5")	al storage	65 60 45 84 73 1.00
D Drive N P-I P-I N	blocks. Max. 3 storag Prives 781518-B21 785069-B21 781516-B21 8872344-B21 804625-B21 872352-B21 804631-B21	HPE 1,2TB SFF 1: 900GB SFF 12G 3 600GB SFF 12G 3 HPE 480GB SATA HPE 480GB SATA HPE 800GB SATA HPE 1,92TB SATA HPE 1,92TB SATA	2G SAS 10k rpm SAS 10K rpm SAS 10K rpm 4 GG MU SFF MU SFF SC 4 GG MU SFF	rpm HotPlig S HotPlug S HotPlug S SSD SSD SC DS SS SSD SC DS SS	ug SC Ente SC Enterpris SC Enterpris	rprise hard e hard driv	drive (2.5") e (2.5")	al storage	65 60 45 84 73 1.00 3.08
D Drive N P-I P-I	blocks. Max. 3 storag Drives 781518-B21 785069-B21 78516-B21 98 872344-B21 804625-B21 872352-B21	HPE 1,2TB SFF 1: 900GB SFF 12G S 600GB SFF 12G S HPE 480GB SATA HPE 480GB SATA HPE 800GB SATA HPE 1.92TB SATA	2G SAS 10K rpm SAS 10K rpm SAS 10K rpm A 6G MU SFF A MU SFF SC A 6G MU SFF MU SFF SC WU SFF SC	rpm HotPlug S HotPlug S SC DS SS SSD SC DS SS SSD SSD SSD SSD	ug SC Ente SC Enterpris SC Enterpris	rprise hard e hard driv	drive (2.5") e (2.5")	al storage	655 600 445 844 733 1.000 3.088 1.877 61
D Drive N P-I P-I N P-I P-I P-I P-I P-I	blocks. Max. 3 storag Prives 781518-B21 785069-B21 781516-B21 781516-B21 88 872344-B21 804625-B21 804631-B21 804665-B21 804671-B21	HPE 1,2TB SFF 1: 900GB SFF 12G S 600GB SFF 12G S 600GB SATA HPE 480GB SATA HPE 480GB SATA HPE 1,92TB SATA HPE 1,6TB SATA HPE 400GB SATA	2G SAS 10k rpm SAS 10K rpm SAS 10K rpm A 6G MU SFF MU SFF SC MU SFF SC MU SFF SC WI SFF SC WI SFF SC	rpm HotPil HotPlug S HotPlug S SC DS SS SSD SC DS SS SSD SSD SSD SSD	ug SC Ente SC Enterpris SC Enterpris SD	rprise hard e hard driv e hard driv	drive (2.5") e (2.5") e (2.5")		65 60 45 84 73 1.00 3.08
D Drive N P-I P-I N P-I P-I P-I P-I P-I P-I	blocks. Max. 3 storage Prives 781518-B21 785069-B21 781516-B21 8872344-B21 804625-B21 872352-B21 804631-B21 804665-B21 8046671-B21 Add Graphics	HPE 1,2TB SFF 1: 900GB SFF 12G S 600GB SFF 12G S HPE 480GB SATA HPE 480GB SATA HPE 800GB SATA HPE 1,92TB SATA HPE 1,6TB SATA HPE 400GB SATA HPE 800GB SATA	2G SAS 10k rpm ASS	rpm HotPlug S HotPlug S SC DS SS SSD SSD SC DS SS SSD SC DS SS SSD SSD SSD SSD ALWays	ug SC Enter SC Enterpris SC Enterpris	rprise hard le hard driv le hard driv	drive (2.5") e (2.5") e (2.5")		655 600 445 844 733 1.000 3.088 1.877 61

HyperConverged 380 system 21/97





3PAR StoreServ 7000 22/97

	PN	Description	REP (in €)
	3P.	AR StoreServ 7000 - Ordering Guidelines - Part 1 : Hardware	-,
	Follow each ste HOWEVER : a configurator. T	os show you how to configure an 3PAR StoreServ 7000 Solution. ep carefully and you will end up with a decent budgettary idea. I real configuration needs to be created using the Salesbuilder for Windows The StoreServ 7000 systems CANNOT BE ORDERED WITHOUT PROPER OR WITHOUT INSTALLATION SERVICES	
tep 1a : Se	elect your base	unit	
	Dual redundant p Rack Rail ki. Rack Rail ki. Controller kil, por 7200c controllers 74400c/2 can be t 7440c/2 can be t All controller noo iSCSI/FCOE systems carry a Hard drives carry	shelves, each holding 2 x 7000 series controllers. power supplies wer cords	
	for the 74xxc/4 Total iSCSI/FCOE	or the net 'c' class controllers : up to 12 x 8Gb ; up to 4 x 16Gb for 7200 , up to 24 x 8gb ; up for 8 x 16Gb Fiports : up to 4 x 10Gb for the 7200 and up to 8 x 10Gb for the 7400/7450 Gb/s Ethernet ports or up to 8 x 1Gb Ethernet ports for the 7200c; up to 8 x 10Gb/s ethernet or up to 16 x	
EOL	E7X65A	HPE 3PAR StoreServ 7200c 2N St Cent Base	12.975,
EOL	E7X71A	HPE 3PAR StoreServ 7400c 2N Fld Int Base	23.015,0
EOL	E7X75A E7X80A	HPE 3PAR StoreServ 7400c 4N Fld Int Base HPE 3PAR StoreServ 7440c 2N Fld Int Base	47.245,0 39.845,0
EOL	E7X86A	HPE 3PAR StoreServ 7440c 4N Fld Int Base	82.220,
EOL	E7X91A	HPE 3PAR StoreServ 7450c 2N Fld Int Base	39.845,
EOL	E7X95A	HPE 3PAR StoreServ 7450c 4N Fld Int Base	82.220,
EOL	QR482A	HPE 3PAR StoreServ 7200 2-N Storage Base	12.080,
EOL	QR483A	HPE 3PAR StoreServ 7400 2-N Storage Base	21.740,
EOL	QR485A	HPE 3PAR StoreServ 7400 4-N Storage Base	45.000,
EOL	C8R35A	HPE 3PAR StoreServ 7450 2N Base	35.870,
EOL			= 4 0=0
tep 1b : If	C8R37A you require adv	HPE 3PAR StoreServ 7450 4N Base vanced file share serving , select one or more StoreServe File controllers	74.250,0
Step 1b : If	you require ad NEW: 3PAR Ston - 2U Base chassis - Dual redundant p - Rack Rail kit, po - up to 16 nodes in Node specificatio. - Extensive protoc - Data Deduplicati - DFS namespace - File server exten - Additional functio - Intel® Xeon® E5 - 32GB RAIM, exp. - 2 x 1Gb Ethemes connect to the 3P. - Dynamic Smart +	vanced file share serving , select one or more StoreServe File controllers eServe File Controller V3 multi-node system , can house up to 2 nodes in a single 2U chassis. nower supplies wer cords the file cluster! ns: of support: SMB (2.0, 2.1, 3.0), NFS (v2, v3, v4.1), WebDAV, HTTP/HTTPS, FTP/FTPS, ISCSI on (block level with file integration) integrazition, DFS-R replication, Active Directory services, etc. ded management: quota management, file screening, file classification, storage reporting nonlity: Print management console, Encryption support, and lots more! i-2609v3 (1,9GHz/1-core/15MB/85W) Processor to 512GB (requires replacing the standard 4x6GB DIMMs) t, Flext.DM for expansion (see list of options), 1 x PCI-Express slots free: for external FC HBA's to AR system Array B140i with support for Raid 0,1,1+0,5,5+0 Arra Value Endurance SFF 2.5-in SC Enterprise Boot SSDs for O/S mirror per 3PAR StoreServ File	74.250,
Step 1b : If	NEW: 3PAR Ston - 2U Base chassis - Dual redundant to - Rack Rail kit, po - up to 16 nodes - Node specificatio - Extensive protoc - Data Deduplicati - DFS namespace - File server exten - Additional functic - Intel® Xeon® E5 - 32GB RAM, exp 2 x 1Gb Etherme connect to the 3P, - Dynamic Smart A - 2 x 120GB 6G S.	vanced file share serving , select one or more StoreServe File controllers eServe File Controller V3 multi-node system , can house up to 2 nodes in a single 2U chassis. nower supplies wer cords the file cluster! ns: of support: SMB (2.0, 2.1, 3.0), NFS (v2, v3, v4.1), WebDAV, HTTP/HTTPS, FTP/FTPS, ISCSI on (block level with file integration) integrazition, DFS-R replication, Active Directory services, etc. ded management: quota management, file screening, file classification, storage reporting nonlity: Print management console, Encryption support, and lots more! i-2609v3 (1,9GHz/1-core/15MB/85W) Processor to 512GB (requires replacing the standard 4x6GB DIMMs) t, Flext.DM for expansion (see list of options), 1 x PCI-Express slots free: for external FC HBA's to AR system ATA Value Endurance SFF 2.5-in SC Enterprise Boot SSDs for O/S mirror per 3PAR StoreServ File	2.333,(
	you require ad NEW: 3PAR Ston - 2U Base chassis - Dual redundant p - Rack Rail kit, po - up to 16 nodes in Node specificatio - Extensive protoc - Data Deduplicati - DFS namespace - File server exten - Additional functic - Intel® Xeon® E5 - 32GB RAM, exp. - 2 x 1Gb Etherne - connect to the 3P, - Dynamic Smart - - 2 x 120GB 6G S, Controller v3 Sing	vanced file share serving , select one or more StoreServe File controllers eServe File Controller V3 multi-node system i, can house up to 2 nodes in a single 2U chassis. Dower supplies wer cords in the file cluster! ins: fol support: SMB (2.0, 2.1, 3.0), NFS (v2, v3, v4.1), WebDAV, HTTP/HTTPS, FTP/FTPS, ISCSI on (block level with file integration) integrazion, DFS-R replication, Active Directory services, etc. ded management: quota management, file screening, file classification, storage reporting chality: Print management console, Encryption support, and lots more! 1-2609v3 (1,96Hz/1-core/15MB38W) Processor t. o 512GB (requires replacing the standard 4x8GB DIMMs) t. FlexLOM for expansion (see list of options), 1 x PCI-Express slots free: for external FC HBA's to AR system ATAY Value Endurance SFF 2.5-in SC Enterprise Boot SSDs for O/S mirror per 3PAR StoreServ File le Node	
P-I	you require ads NEW: 3PAR Ston - 2U Base chassis - Dual redundant p. - Rack Rail kit, por - up to 16 nodes in Node specificatio - Extensive protoc - Data Deduplicati - DFS namespace - File server exten - Additional funciti - Intel® Xeon® E5 - 32GB RAM, exp. - 2 x 1Gb Etheme connect to the 3P, - Dynamic Smart - 2 x 120GB 6G S. Controller v3 Sing	vanced file share serving , select one or more StoreServe File controllers eServe File Controller V3 multi-node system c, can house up to 2 nodes in a single 2U chassis. boower supplies wer cords in the file cluster! ins: of support: SMB (2.0, 2.1, 3.0), NFS (v2, v3, v4.1), WebDAV, HTTP/HTTPS, FTP/FTPS, ISCSI on (block level with file integration) integrazion, DFS-R replication, Active Directory services, etc. ded management: quota management, file screening, file classification, storage reporting onality: Print management console, Encryption support, and lots more! i-2609v3 (1,9GHz/1-core/15MB/85W) Processor to 512GB (requires replacing the standard 4x8GB DIMMs) t, Flext.OM for expansion (see list of options), 1 x PCI-Express slots free: for external FC HBA's to AR system Array B140i with support for Raid 0,1,1+0,5,5+0 ATA Value Endurance SFF 2.5-in SC Enterprise Boot SSDs for O/S mirror per 3PAR StoreServ File le Node	2.333,
P-I	Vou require ach NEW: 3PAR Ston - 2U Base chassis - Dual redundant p Rack Rail kit, por - up to 16 nodes - Date specificatio - Extensive protoc - Data Deduplicati - DFS namespace - File server exten - Additional functic - Intel® Xeon® E5 - 32GB RAM, exp 2 x 106 Ethernet - connect to the 3P, - Dynamic Smart x - 2 x 120GB 66 S. Controller v3 Sing K2R66A K2R67A ect your additic Each node in a enclosure) mus be intermixed in The 4 ports of in an RC config The two ports of (Note: FCoE fu	vanced file share serving , select one or more StoreServe File controllers eServe File Controller V3 multi-node system i, can house up to 2 nodes in a single 2U chassis. hower supplies wer cords wer cords wer cords wer cords wer cords in the file cluster! is: ol support: SMB (2.0, 2.1, 3.0), NFS (v2, v3, v4.1), WebDAV, HTTP/HTTPS, FTP/FTPS, ISCSI on (block level with file integration) integrazion, DFS-R replication, Active Directory services, etc. ded management: quota management, file screening, file classification, storage reporting mality: Pint management console, Encryption support, and lots more! integrazion, DFS-R replication, Active Directory services, etc. ded management console, Encryption support, and lots more! integrazion, DFS-R replication, Active Directory services, etc. ded management: quota management, file screening, file classification, storage reporting mality: Pint management console, Encryption support, and lots more! integrazion of the standard 4x8GB DIMMs) It, FlexLOM for expansion (see list of options), 1 x PCI-Express slots free: for external FC HBA's to ARR system ARRAY Value Endurance SFF 2.5-in SC Enterprise Boot SSDs for O/S mirror per 3PAR StoreServ File le Node HPE 3PAR StoreServ File Ctl v3 Sys HPE 3PAR StoreServ File Ctl v3 Sngl Node Donal Host ports adapters (if required) In node pair (a node pair is composed of the two controller nodes in a single 2U st have the same number and type of adapters. FC and iSCSI/FCoE adapters may not in a node pair. the FC adapter can be individually configured to connect to a host or to a remote array puration. of the iSCSI/FCoE adapter can be individually configured by the user as iSCSI or FCoE inctionality will be enabled in 2013).	2.333,
P-I	you require ach NEW: 3PAR Ston - 2U Base chassis - Dual redundant p. Rack Rail kit, po - up to 16 nodes in Node specificatio - Extensive protoc - Data Deduplicati - DFS namespace - File server exten - Additional functic - Intel® Xeon® E5 - 32GB RAM, exp 2 x 1Gb Etherner - connect to the 3P, - Dynamic Smart 2 x 120GB 6G S. Controller v3 Sing K2R66A K2R67A ect your additic Each node in a enclosure) mus be intermixed in The 4 ports of in an RC config The two ports of (Note: FCoE fu Warning: whet "0D1" as this o in to sto connect OR4866A E7X47A E7X47A	vanced file share serving , select one or more StoreServe File controllers eServe File Controller V3 multi-node system , can house up to 2 nodes in a single 2U chassis. hower supplies wer cords wer cords in the file cluster! ins: not support: SMB (2.0, 2.1, 3.0), NFS (v2, v3, v4.1), WebDAV, HTTP/HTTPS, FTP/FTPS, ISCSI on (block level with file integration) integration, DFS-R replication, Active Directory services, etc. ded management: quota management, file screening, file classification, storage reporting praility: Print management console, Encryption support, and lots more! 2609v3 (1,96Hz/1-core/15MB/85W) Processor to 512GB (requires replacing the standard 4x8GB DIMMs) t, FlexLOM for expansion (see list of options), 1 x PCI-Express slots free: for external FC HBA's to ARR system ATAY Value Endurance SFF 2.5-in SC Enterprise Boot SSDs for O/S mirror per 3PAR StoreServ File le Node HPE 3PAR StoreServ File Ctl v3 Sys HPE 3PAR StoreServ File Ctl v3 Sngl Node conal Host ports adapters (if required) in ode pair (a node pair is composed of the two controller nodes in a single 2U st have the same number and type of adapters. FC and iSCSI/FCoE adapters may not an anode pair. the FC adapter can be individually configured to connect to a host or to a remote array guration. of the iSCSI/FCoE adapter can be individually configured by the user as iSCSI or FCoE inctionality will be enabled in 2013). Hordering this , make sure to, add a second line which repeats the part number + ption needs to be integrated in the factory. HPE 3PAR 7000 4-pt 8Gb/s FC Adapter HPE 3PAR 7000 2-pt 16Gb FC Adapter	2.333, 6.432, 3.320, 3.490,
P-I Step 2 : Sel	you require ach NEW: 3PAR Ston - 2U Base chassis - Dual redundant p Rack Rail kit, po - up to 16 nodes - The specificatio - Extensive protoc - Data Deduplicati - DFS namespace - File server exten - Additional functic - Intel® Xeon® E5 - 32GB RAM, exp 2 x 105 Ethermel connect to the 3P, - Dynamic Samt - 2 x 120GB 6G S. Controller v3 Sing K2R66A K2R67A Each node in a enclosure) mus be intermixed in The 4 ports of in an RC config The two ports of (Note: FCoE fu Warning: where "0D1" as this of thest connect OR486A CR486A CR486	vanced file share serving , select one or more StoreServe File controllers eServe File Controller V3 multi-node system i, can house up to 2 nodes in a single 2U chassis. Dower supplies wer cords wer cords wer cords in the file cluster! is: ol support: SMB (2.0, 2.1, 3.0), NFS (v2, v3, v4.1), WebDAV, HTTP/HTTPS, FTP/FTPS, ISCSI on (block level with file integration) integrazion, DFS-R replication, Active Directory services, etc. ded management : quota management, file screening, file classification, storage reporting mality: Pint management console, Encryption support, and lots more! 6-2609v3 (1.9GHz/1-core/15MB/85W) Processor to 512GB (requires replacing the standard 4x8GB DIMMs) t, FlexLOM for expansion (see list of options), 1 x PCI-Express slots free : for external FC HBA's to AR system ATA Value Endurance SFF 2.5-in SC Enterprise Boot SSDs for O/S mirror per 3PAR StoreServ File le Node HPE 3PAR StoreServ File Ctl v3 Sys HPE 3PAR StoreServ File Ctl v3 Sngl Node Donal Host ports adapters (if required) an ode pair (a node pair is composed of the two controller nodes in a single 2U st have the same number and type of adapters. FC and iSCSI/FCoE adapters may not a node pair. the FC adapter can be individually configured to connect to a host or to a remote array puration. of the iSCSI/FCoE adapter can be individually configured by the user as iSCSI or FCoE inctionality will be enabled in 2013). In ordering this , make sure to, add a second line which repeats the part number + ption needs to be integrated in the factory. HPE 3PAR 7000 4-pt 8Gb/s FC Adapter	2.333, 6.432,

3PAR StoreServ 7000 23/97



	PN	Description	REP (in €)
tep 3 : Ad	ld expansion s	helves if necessary	
	Max. Number	of shelves : 9 18 22 38	
		7200 7400 7400c 7440c	
		7200c 7450	
		7450c	
	QR490A	HPE M6710 2.5in 2U SAS Drive Enclosure	4.425,0
		Kit contents : StoreServ 7000 SFF JBOD. Supports up to 24x 2.5" SFF Hard disks.	
	QR491A	HPE M6720 3.5in 4U SAS Drive Enclosure	4.425,0
		Kit contents : StoreServ 7000 LFF JBOD. Supports up to 24x 3.5" LFF Hard disks.	
ton 1 · co	lect the correc	***	
		ller to a JBOD if a longer cable is desired.	
onnecting Sto	QR514A	HPE 1 Meter SAS Expansion Cable Kit	150,0
	AW566A	HP 2m Expansion Cable Kit	210,0
	AP879A	HP 6m Expansion Cable Kit	1.005.0
ten 5 · Ad		lisk drives for your chassis.	1.000,
tep J . Au		f 8 drives for RAID 1 or RAID 5 is required, for RAID 6 12 drives. When adding drives	-
		• • • • • • • • • • • • • • • • • • • •	
		DD configuration, be aware to have at least 2 drives per JBOD, and when adding drive	S
		ate every JBOD in pairs!	
		ntities are 8 for SSD & SAS, 12 for Midline SAS	
		uired capacity must be greater than 1.2TB!	
	lisks. (No ProLiant d		
P-I	E7Y55A	HPE M6710 480GB Non-AFC SFF SSD	4.450,
5" LFF Dual p		6 disk drives. !!! (NO ProLiant LFF disk drives)	
	QR499A	HPE M6720 2TB 6G SAS 7.2K 3.5in NL HDD	955,0
	H6Z87A	HPE M6720 4TB 6G SAS 7.2K 3.5in HDD	1.855,0
	K0F28A	HPE M6720 6TB 6G SAS 7.2K 3.5in NL HDD.	2.790,0
5" LFF SSD d	lisks. (No ProLiant d	lisk drives !!)	
P-I	E7Y56A	HPE M6720 480GB Non-AFC LFF SSD	4.450,
P-I	E7W54B	HPE M6710 480GB SFF SSD	6.358,0
P-I	E7W24B	HPE M6710 920GB SFF SSD	10.929,0
P-I	E7Y57A	HPE M6710 1.92TB SFF SSD	15.134,0
P-I	K2Q91A	HPE M6710 3.84TB SFF SSD	26.718,
5 SFF 5A5 0	QR492A	HPE M6710 300GB 6G SAS 15K 2.5in HDD	775,0
	K0F23A	HPE M6710 600GB 6G SAS 15K 2.5in HDD	1.380,0
EOL	QR494A	HPE M6710 450GB 6G SAS 10K 2.5in HDD	920,
	C8R72A	HPE M6710 600GB 6G SAS 10K 2.5in HDD	895,
EOL	QR496A	HPE M6710 900GB 6G SAS 10K 2.5in HDD	1.250,
	E7X49A	HPE M6710 1.2TB 6G SAS 10K 2.5in HDD	1.640,
	K0F26A	HPE M6710 1.8TB 6G SAS 10K 2.5in HDD	3.015,
5" SFF Dual p	oort 6G Nearline SAS	S disk drives. !!! (NO ProLiant LFF disk drives)	
	QR498A	HPE M6710 1TB 6G SAS 7.2K 2.5in HDD	735,0
	M0S91A	HPE M6710 2TB 6G SAS 7.2K 2.5in NL HDD	1.905,0
E" SEE SSD &	noruntion dick drive	es. !!! (NO ProLiant SFF disk drives).	
3 3FF 33D E	encryption disk drive	ss. III (NO FIOLIAIR SFF disk drives).	
	Watch out : s	electing encryption disk drives also requires the encryption licenses. Encryption is	
	switched on p	er array , once encrypted all disks must be SED disks)	
P-I	E7Y52A	HPE M6710 920GB SFF FE SSD	11.475,0
P-I	K0F27A	HPE M6710 1.92TB SFF FE SSD	15.891,0
P-I	M0T67A	HPE M6710 3.84TB SFF FE SSD	28.054,0
5" LFF FIPS E	Encryption Nearline	SAS disk drives. !!! NO ProLiant LFF disk drives, same remarks as for SSD SED drives)	
EOL	H6Z84A	HPE M6720 2TB 6G SAS 7.2K 3.5in FE HDD	1.085,0
	K0F29A	HPE M6720 6TB 6G SAS 7.2K LFF NL FE HDD	2.990,0
5" SFF FIPS I	Encryption SAS dis	k drives. !!! NO ProLiant LFF disk drives, same remarks as for SSD SED drives)	
	K0F24A	HPE M6710 600GB 6G SAS 15K 2.5in FE HDD	1.450,
	K0F25A	HPE M6710 1.2TB 6G SAS 10K 2.5in FE HDD	1.730,
5" SFF FIPS I		SAS disk drives. !!! NO ProLiant LFF disk drives, same remarks as for SSD SED drives)	
	**	ce Processor implementation	
JP 0. OIII		S software, a Virtual Service Processor is included that can run as a VM on VMWare or Hyper-V. Howe	VOT
		anage multiple StoreServ 7000 systems, a physical Service Processor is reccommended.	v Cı ,
	, 554 11664 10 1111		
	K2R28A	3PAR Service Processor	3.910,0

3PAR StoreServ 7000 24/97



	PN	Description	REP (in €)
	3P	AR StoreServ 7000 - Ordering Guidelines - Part 2 : Software	
	- Software add-ons E.g. No matter how - Software that cor Replication, Autom what disk drive.	oftware is divided into 2 separate types: for external applications (VMWare, Oracle, SQL, etc). Those are licensed per StoreServ 7000 system. w many VMWare systems you have, the software only needs to be paid once. throls the advanced functionality of the StoreServ 7000 arrays: Thin Provisioning, Snapshots, natic Tiering, etc. These license are payable per physical disk drive in the system. It does not matter	
Step 1 : Add		Base OS software (without this your array does not function)	
	3PAR Thin Pr 3PAR Thin Cc 3PAR Thin Cc 3PAR Thin Cc 3PAR Autono 3PAR System 3PAR Manage EVA to 3PAR EMC VNX & C 3PAR Host E: 3PAR SmartS 3PAR Multipa For the SSD dr	conversion ersistence opy Reclamation mic Rebalance in Tuner ement Console Colline Import** CX4 to 3PAR Online Import** xplorer Start* Service Processor* tth Software for Windows 2003	
Physical Media Ki			
	BD363A	HPE 3PAR OS Suite Latest Media	150,00
		eletters 'AE' to the end of the part number.	
Physical Licenses	s (valid for c and no	on-C controllers)	
	DC74ED		055.00
	BC745B	HPE 3PAR 7200 OS Suite Base LTU	955,00
	BC746A	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU	100,00
	BC746A BC773B	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 OS Suite Base LTU	100,00 2.025,00
	BC746A BC773B BC774A	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 OS Suite Base LTU HP 3PAR 7400 Operating System Software Suite Drive LTU	100,00 2.025,00 415,00
	BC746A BC773B BC774A BD374A	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPB 3PAR 7400 OS Suite Base LTU HPB 3PAR 7400 Operating System Software Suite Drive LTU HPB 3PAR 7440 COS Suite Base LTU HPB 3PAR 7440	100,00 2.025,00 415,00 2.560,00
	BC746A BC773B BC774A BD374A BD381A	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 OS Suite Base LTU HP 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7440c OS Suite Base LTU HP 3PAR 7440c OS Suite Drive LTU	100,00 2.025,00 415,00 2.560,00 520,00
	BC746A BC773B BC774A BD374A BD381A BC890B	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 OS Suite Base LTU HP 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7440c OS Suite Base LTU HP 3PAR 7440c OS Suite Drive LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Base LTU	100,00 2.025,00 415,00 2.560,00 520,00 2.560,00
Sten 2 · Add	BC746A BC773B BC774A BD374A BD381A BC890B BC891A	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 OS Suite Base LTU HP 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7440c OS Suite Base LTU HP 3PAR 7440c OS Suite Drive LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Drive LTU	100,00 2.025,00 415,00 2.560,00 520,00 2.560,00
Step 2 : Add	BC746A BC773B BC774A BD374A BD381A BC890B BC891A the optional R	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 OS Suite Base LTU HP 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7440 COS Suite Base LTU HP 3PAR 7440c OS Suite Drive LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Drive LTU REPIRATION OF SUITE DRIVE D	100,00 2.025,00 415,00 2.560,00 520,00 2.560,00
For electronic ver	BC746A BC773B BC774A BD374A BD381A BC890B BC891A The Optional R The StoreServ • 3PAR Virtual • 3PAR Remote • 3PAR Peer Posions, just add the	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 OS Suite Base LTU HP 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7440 COS Suite Base LTU HP 3PAR 7440c OS Suite Drive LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Drive LTU REPIRATION OF SUITE DRIVE D	100,00 2.025,00 415,00 2.560,00 520,00 2.560,00
	BC746A BC773B BC774A BD374A BD381A BC890B BC891A The StoreServ • 3PAR Virtual • 3PAR Remote • 3PAR Peer Posions, just add the	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 OS Suite Base LTU HP 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7400 CS Suite Base LTU HP 3PAR 7440c OS Suite Drive LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Drive LTU REPIDATE OF SUITE DRIVE DRIV	100,00 2.025,00 415,00 2.560,00 520,00 2.560,00 520,00
For electronic ver	BC746A BC773B BC774A BC774A BD3814 BC890B BC891A The StoreServ • 3PAR Virtual • 3PAR Remote • 3PAR Peer Posions, just add the	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 OS Suite Base LTU HP 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7440c OS Suite Base LTU HP 3PAR 7440c OS Suite Drive LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Drive LTU REPLICATION SUITE 7000 Replication Suite Copy e Copy ersistence Retters 'AE' to the end of the part number. HP 3PAR 7200 Replication Software Suite Base LTU HP 3PAR 7200 Replication Software Suite Base LTU	100,00 2.025,00 415,00 2.560,00 520,00 520,00 520,00
For electronic ver	BC746A BC773B BC774A BD374A BD374A BD381A BC890B BC891A The StoreServ • 3PAR Virtual • 3PAR Remote • 3PAR Peer Posions, just add the services and the services are services as the services are services and the services are services and the services are services are services and the services are services are services and the services are serv	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7440c OS Suite Base LTU HP 3PAR 7440c OS Suite Drive LTU HP 3PAR 7450 OS Suite Drive LTU HP 3PAR 7450 OS Suite Drive LTU HP 3PAR 7450 OS Suite Drive LTU LEplication Suite 7000 Replication Suite contains the following functionality: Copy e Copy ersistence Letters 'AE' to the end of the part number. HP 3PAR 7200 Replication Software Suite Base LTU HP 3PAR 7200 Replication Software Suite Drive LTU	100,00 2.025,00 415,00 2.560,00 520,00 520,00 520,00 1.165,00
For electronic ver	BC746A BC773B BC774A BD374A BD381A BC890B BC891A The Optional R The StoreServ • 3PAR Virtual • 3PAR Remote • 3PAR Peer Posions, just add the BC747A BC748A BC745A	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7440c OS Suite Base LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Base LTU Ceplication Suite 7000 Replication Suite Contains the following functionality: Copy E Copy Ersistence Retters 'AF' to the end of the part number. HP 3PAR 7200 Replication Software Suite Base LTU HP 3PAR 7200 Replication Software Suite Base LTU HP 3PAR 7200 Replication Software Suite Drive LTU HP 3PAR 7400 Replication Software Suite Base LTU HP 3PAR 7400 Replication Software Suite Base LTU	100,000 2.025,000 415,000 2.560,000 520,000 520,000 520,000 1165,000 115,000 1.285,000
For electronic ver	BC746A BC773B BC774A BD374A BD381A BC890B BC891A The StoreServ • 3PAR Virtual • 3PAR Remote • 3PAR Peer Posions, just add the BC747A BC748A BC776A	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7440 COS Suite Base LTU HP 3PAR 7450 COS Suite Base LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Base LTU OR Replication Suite 7000 Replication Suite contains the following functionality: Copy e Copy er Sistence Retters 'AE' to the end of the part number. HP 3PAR 7200 Replication Software Suite Base LTU HP 3PAR 7200 Replication Software Suite Drive LTU HP 3PAR 7400 Replication Software Suite Base LTU	100,000 2.025,000 415,000 2.560,000 520,000 520,000 520,000 1.165,000 1.185,000 1.285,000
For electronic ver	BC746A BC773B BC774A BD374A BD381A BC890B BC891A The StoreServ • 3PAR Virtual • 3PAR Remote • 3PAR Peer Posions, just add the BC747A BC748A BC748A BC776A BC776A BD382A	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7400 CS Suite Base LTU HP 3PAR 7440c OS Suite Drive LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Drive LTU REPLICATION SUITE REPLICATION SUIT	1.165,00 1.285,00 1.285,00 2.560,00 520,00 520,00 520,00 1.165,00 1.155,00 1.285,00 1.860,00
For electronic ver	BC746A BC773B BC774A BC774A BD3814 BC890B BC891A The StoreServ • 3PAR Virtual • 3PAR Remote • 3PAR Peer Posions, just add the BC747A BC748A BC775A BC748A BC776A BC382A BD383A	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7440c OS Suite Base LTU HP 3PAR 7440c OS Suite Drive LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Drive LTU Replication Suite 7000 Replication Suite contains the following functionality: Copy e Copy ersistence Reters 'AE' to the end of the part number. HP 3PAR 7200 Replication Software Suite Base LTU HP 3PAR 7200 Replication Software Suite Drive LTU HP 3PAR 7400 Replication Software Suite Base LTU HP 3PAR 7440c Replication Software Suite Base LTU	1.165,00 1.285,00 1.286,00 1.286,00 1.286,00 1.286,00 1.286,00 1.286,00 1.370,00
For electronic ver	BC746A BC773B BC774A BD374A BD381A BC890B BC891A The StoreServ • 3PAR Virtual • 3PAR Remote • 3PAR Peer Posions, just add the BC747A BC748A BC748A BC776A BC776A BD382A	HPE 3PAR 7200 OS Suite Base LTU HP 3PAR 7200 Operating System Software Suite Drive LTU HPE 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7400 Operating System Software Suite Drive LTU HP 3PAR 7400 CS Suite Base LTU HP 3PAR 7440c OS Suite Drive LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Base LTU HP 3PAR 7450 OS Suite Drive LTU REPLICATION SUITE REPLICATION SUIT	1.165,0(1.285,0) 2.550,01 1.165,00 1.165,00 1.185,00 1.285,00 1.860,00

3PAR StoreServ 7000 25/97



Lincolp			
	PN	Description	REP (in €)
Step 3 : Ad	d the optiona	I Data Optimization Suite	
	The StoreSe	erv 7000 Data Optimization Suite V2 contains the following functionality:	
	ADAD Dele	iit. Oatiminatina – Analinatina Ovalit. of comina	
		rity Optimization = Application Quality of service ptive Optimization = Block Level tiering	
		amic Optimization = Volume Level Tiering	
		r Motion = System Level Tiering (Federation)	
For electronic v		the letters 'AE' to the end of the part number.	
Physical Licens		the letters AL to the end of the part number.	
,	BD268A	HP 3PAR 7200 Data Optimization Software Suite V2 Base LTU	1.400,00
	BD269A	HP 3PAR 7200 Data Optimization Software Suite V2 Drive LTU	140,00
	BD270A	HP 3PAR 7400 Data Optimization Software Suite V2 Base LTU	2.205,00
	BD271A	HP 3PAR 7400 Data Optimization Software Suite V2 Drive LTU	440,00
	BD404A	HP 3PAR 7440c Data Opt St v2 Base LTU	3.080,00
	BD405A	HP 3PAR 7440c Data Opt St v2 Drive LTU	615,00
	BD272A	HP 3PAR 7450 Data Optimization Software Suite V2 Base LTU	3.080,00
	BD273A	HP 3PAR 7450 Data Optimization Software Suite V2 Drive LTU	615,00
Step 4 : Ad	d the optiona	I File Persona Suite	
	consolidation Converged (via the Block Persona to also include client workloads such as home directory no, group/department shares, and corporate shares via the File Persona – all with truly Controllers, truly agile capacity, and truly unified management. sona is supported on the 3PAR StoreServ 7000c Series. It requires the installation of GbE network cards. Licenses are TB based, one license is for 1TB of file storage.	
For electronic v	versions, just add	the letters 'AE' to the end of the part number.	
Physical Licens			
	BD408A	HPE 3PAR 7200c File Persona Ste 1TB LTU	130,00
	BD409A BD410A	HPE 3PAR 7400c File Persona Ste 1TB LTU	160,00
	BD411A	HPE 3PAR 7440c File Persona Ste 1TB LTU HPE 3PAR 7450c File Persona Ste 1TB LTU	275,00 275,00
Stop 5 · Ad		I Security Software Suite	273,00
Step 3 . Au			
For electric	• 3PAR Virtu • 3PAR Virtu	ary 7000 Security Software Suite contains the following functionality : ual Domains (segregation of the array into multiple domains) ual Lock (lock volumes and snapshots AKA WORM like)	
For electronic v Physical Licens		the letters 'AE' to the end of the part number.	
i ilysicai Licelis	BC751A	HP 3PAR 7200 Security Software Suite Base LTU	435,00
	BC752A	HP 3PAR 7200 Security Software Suite Drive LTU	45,00
	BC779A	HP 3PAR 7400 Security Software Suite Base LTU	900,00
	BC780A	HP 3PAR 7400 Security Software Suite Drive LTU	180,00
	BD384A	HP 3PAR 7440c Security Suite Base LTU	1.310,00
	BD385A	HP 3PAR 7440c Security Suite Drive LTU	265,00
	BC908A	HP 3PAR 7450 Security St Base LTU	1.310,00
	BC909A	HP 3PAR 7450 Security Suite Drv LTU	265,00

3PAR StoreServ 7000 26/97



	PN	Description	REP (in €)
Step 6 : Ac	dd the optional	Encryption licenses	
		yption license (LTU) is required to enable encryption on the array. One encryption license	
		r each encrypted array.	
		ray is encrypted, the whole array must be encrypted. You cannot mix unencrypted disks	
	• • • • • • • • • • • • • • • • • • • •	d disks in the same array.	
		he letters 'AE' to the end of the part number.	
Physical Licen			
	BC983A	HP 3PAR 7200 Data Encryption LTU	3.615,0
	BC984A	HP 3PAR 7400 Data Encryption LTU	7.300,0
	BD406A BC985A	HP 3PAR 7440c Data Encryption LTU HP 3PAR 7450 Data Encryption LTU	9.125, 9.125,
Non 7 . De			9.125,
step / : Ke		was separate host based, now included in SSMC (1 license per system!)	
		g Module contains performance and capacity management tools	
		nalytics for VMWare vCenter Operations Manager is a tool to manage storage	
	performance	in a VMware environment, linked to vCops. available as electronic license only!	
	0.71		
Physical Media		LID ODAD Dagating Cuite Madia	05
EOL	BD373A	HP 3PAR Reporting Suite Media	85,0
or electronic Physical Licen		he letters 'AE' to the end of the part number.	
nysicai Licen	BC767B	HP 3PAR 7200 Reporting Suite LTU	3.595,
	BC795B	HP 3PAR 7400 Reporting Suite LTU	7.280,
	BD375A	HP 3PAR 7440c Reporting Suite LTU	9.105,
	BC914B	HP 3PAR 7450 Reporting Suite LTU	9.105,
	ВСЭТ4В	THE SEARCH THOU INEPORTING SUITE ETG	3.103,
lectronic Lice	onege		
lectronic Lice	D4T81AAE	HP StoreFront Analytics for VMware vRealize Operations and 3PAR StoreServ Software E-LTU	1.015,
	D4T81AAE		1.015,
Electronic Lice Step 8a : A			1.015,0
	D4T81AAE Application Sup	pport suites	1.015,0
	D4T81AAE Application Sup The following	Application software suites contain add-on tools for use with specific OS's and	1.015,
	D4T81AAE Application Sup The following applications:	Application software suites contain add-on tools for use with specific OS's and	1.015,
	D4T81AAE Application Sup The following applications: The VMWare	poport suites Application software suites contain add-on tools for use with specific OS's and e suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for	1.015,
	The following applications: The VMWare vCenter, Hos	Application software suites contain add-on tools for use with specific OS's and e suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by	1.015,
	The following applications: The VMWare vCenter, Hos Recovery Ma	Application software suites contain add-on tools for use with specific OS's and e suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for the Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by unager Central for VMware! See chapter 9b!	1.015,
	D4T81AAE Application Sup The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof	Application software suites contain add-on tools for use with specific OS's and e suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by	1.015,
	D4T81AAE The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider	Application software suites contain add-on tools for use with specific OS's and e suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for tt Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by imager Central for VMware! See chapter 9b! tt Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware	1.015,
	D4T81AAE The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit	Application software suites contain add-on tools for use with specific OS's and e suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for tt Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by anager Central for VMware! See chapter 9b! tt Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware has the Recovery Manager for SQL and its VSS hardware provider	1.015,
Step 8a : A	D4T81AAE The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s	Application software suites contain add-on tools for use with specific OS's and e suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for tt Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by imager Central for VMware! See chapter 9b! tt Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware	1.015,
Step 8a : A	D4T81AAE The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's	Application software suites contain add-on tools for use with specific OS's and estable contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by inager Central for VMware! See chapter 9b! It Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle.	
Step 8a : A	D4T81AAE The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's BD372A	Application software suites contain add-on tools for use with specific OS's and established suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by imager Central for VMware! See chapter 9b! It Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware he has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media	85,
Step 8a : A	D4T81AAE The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's	Application software suites contain add-on tools for use with specific OS's and e suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by inager Central for VMware! See chapter 9b! It Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware e has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyper-V Media HPE 3P	85, 85,
Step 8a : A	D4T81AAE Application Sup The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD369A BD368A	Application software suites contain add-on tools for use with specific OS's and esuite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by inager Central for VMware! See chapter 9b! it Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyper-V Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for Exchange Media	85, 85, 85,
Step 8a : A	D4T81AAE The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD369A	Application software suites contain add-on tools for use with specific OS's and e suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by inager Central for VMware! See chapter 9b! It Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware e has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyper-V Media HPE 3P	85, 85, 85, 85,
Step 8a : A	D4T81AAE The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s BD372A BD369A BD368A BD371A BD370A	Application software suites contain add-on tools for use with specific OS's and established suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by imager Central for VMware! See chapter 9b! It Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyper-V Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for Oracle Media HPE 3PAR App Suite for Oracle Media	85, 85, 85, 85,
Step 8a : A	D4T81AAE Application Sugaplication Sugaplications: The Vindows The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD368A BD368A BD371A BD370A versions, just add t	Application software suites contain add-on tools for use with specific OS's and estate contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by inager Central for VMware! See chapter 9b! it Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyper-V Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for SQL Media	85, 85, 85, 85,
Step 8a : A	D4T81AAE Application Sugaplication Sugaplications: The Vindows The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD368A BD368A BD371A BD370A versions, just add t	Application software suites contain add-on tools for use with specific OS's and established suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by imager Central for VMware! See chapter 9b! It Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyper-V Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for Oracle Media HPE 3PAR App Suite for Oracle Media	85, 85, 85, 85,
Step 8a : A	D4T81AAE Application Sup The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD369A BD368A BD371A BD370A versions, just add_t	Application software suites contain add-on tools for use with specific OS's and e suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by imager Central for VMware! See chapter 9b! It Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware e has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for Oracle Media	85, 85, 85, 85, 3,595,
Step 8a : A	D4T81AAE Application Sup The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD369A BD369A BD371A BD370A versions, just add t sses BC767B	Application software suites contain add-on tools for use with specific OS's and estate contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by inager Central for VMware! See chapter 9b! It Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware is has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyper-V Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for Oracle Media HPE 3PAR 7200 Reporting Suite LTU	1.015, 85, 85, 85, 85, 85, 3.595, 3.595,
Step 8a : A	D4T81AAE The following applications: The VMWare VCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD369A BD369A BD371A BD370A versions, just add t ises BC767B BD178B	Application software suites contain add-on tools for use with specific OS's and suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by inager Central for VMware! See chapter 9b! It Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware is the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyber-V Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for Oracle Media HPE 3PAR App Suite for Oracle Media HPE 3PAR App Suite for Oracle Media HPE 3PAR T200 Reporting Suite LTU HP 3PAR 7200 Reporting Suite LTU HP 3PAR 7200 App Suite Hyper-V LTU	85, 85, 85, 85, 85, 3.595,
Step 8a : A	D4T81AAE The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD369A BD369A BD369A BD371A BD370A versions, just add t sees BC767B BD178B BC769B	Application software suites contain add-on tools for use with specific OS's and established suite contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by imager Central for VMware! See chapter 9b! It Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware established here as the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyper-V Media HPE 3PAR App Suite for Bxchange Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for Oracle Media HPE 3PAR App Suite for Oracle Media HPE 3PAR App Suite for Oracle Media HPE 3PAR 7200 Reporting Suite LTU HP 3PAR 7200 App Suite Hyper-V LTU HP 3PAR 7200 App Suite Exchange LTU	85, 85, 85, 85, 3.595, 3.595, 3.595,
Step 8a : A	D4T81AAE Application Sup The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD369A BD369A BD371A BD369A BD371A BD370A versions, just add t 1868 BC767B BD178B BC769B BC771B	Application software suites contain add-on tools for use with specific OS's and estate contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by inager Central for VMware! See chapter 9b! t Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware ehas the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyper-V Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for Oracle Media HPE 3PAR App Suite for Oracle Media HPE 3PAR App Suite for Oracle Media HPE 3PAR 7200 Reporting Suite LTU HP 3PAR 7200 App Suite Hyper-V LTU HP 3PAR 7200 App Suite Exchange LTU	85, 85, 85, 85, 3.595, 3.595, 3.595,
Step 8a : A	D4T81AAE Application Sup The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD369A BD368A BD371A BD370A BD370A BD370A BD370A BD370B BD178B BC767B BD178B BC767B BD178B BC771B BD179B	Application software suites contain add-on tools for use with specific OS's and estate contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for the Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by the suite contains: Recovery Manager for Exchange and the VSS Hardware the Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware the has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyper-V Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for Oracle Media HPE 3PAR App Suite for Oracle Media HPE 3PAR 7200 Reporting Suite LTU HP 3PAR 7200 App Suite Hyper-V LTU HP 3PAR 7200 App Suite Exchange LTU HP 3PAR 7400 App Suite Hyper-V LTU HP 3PAR 7400 App Suite Hyper-V LTU HP 3PAR 7400 App Suite Exchange LTU	85, 85, 85, 85, 3,595, 3,595, 7,280, 7,280, 7,280,
Step 8a : A	D4T81AAE Application Sup The following applications: The VMWare Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD369A BD376A BD370A versions, just add t 1ses BC767B BD178B BC769B BC771B BD179B BC797B	Application software suites contain add-on tools for use with specific OS's and estate contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for it Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by inager Central for VMware! See chapter 9b! it Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyper-V Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for Oracle Media HPE 3PAR App Suite for Oracle Media HPE 3PAR 7200 Reporting Suite LTU HP 3PAR 7200 App Suite Hyper-V LTU HP 3PAR 7200 App Suite Oracle LTU HP 3PAR 7200 App Suite Oracle LTU HP 3PAR 7400 App Suite Hyper-V LTU HP 3PAR 7400 App Suite Hyper-V LTU HP 3PAR 7400 App Suite Hyper-V LTU HP 3PAR 7400 App Suite Exchange LTU HP 3PAR 7400 App Suite Exchange LTU	85, 85, 85, 85, 3,595, 3,595, 3,595, 7,280,
Step 8a : A	D4T81AAE Application Sup The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD369A BD369A BD369A BD371A BD370A versions, just add t 1ses BC767B BD178B BC769B BC771B BD179B BC797B BC799B	Application software suites contain add-on tools for use with specific OS's and estate contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for the Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by the suite contains: Recovery Manager for Exchange and the VSS Hardware the Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware the has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyper-V Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for Oracle Media HPE 3PAR App Suite for Oracle Media HPE 3PAR 7200 Reporting Suite LTU HP 3PAR 7200 App Suite Hyper-V LTU HP 3PAR 7200 App Suite Exchange LTU HP 3PAR 7400 App Suite Hyper-V LTU HP 3PAR 7400 App Suite Hyper-V LTU HP 3PAR 7400 App Suite Exchange LTU	85, 85, 85, 85, 3,595, 3,595, 7,280, 7,280, 7,280,
Step 8a : A	D4T81AAE Application Sup The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD369A BD371A BD369A BD371A BD370A versions, just add t 1ses BC767B BD178B BC769B BC771B BD179B BC797B BC797B BC799B BC390A	Application software suites contain add-on tools for use with specific OS's and estate contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for the Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by imager Central for VMware! See chapter 9b! the Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware estate has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for Oracle Media HPE 3PAR App Suite for Oracle Media HPE 3PAR 7200 Reporting Suite LTU HP 3PAR 7200 App Suite Hyper-V LTU HP 3PAR 7200 App Suite Exchange LTU HP 3PAR 7400 App Suite Dracle LTU HP 3PAR 7400 App Suite Exchange LTU HP 3PAR 7400 App Suite Exchange LTU HP 3PAR 7400 App Suite Exchange LTU HP 3PAR 7400 App Suite Hyper-V LTU	85, 85, 85, 85, 3.595, 3.595, 7.280, 7.280, 9.105,
Step 8a : A	D4T81AAE Application Sup The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD369A BD379A BD369A BD371A BD370A versions, just add t 1ses BC767B BD178B BC797B BC797B BC797B BC797B BC797B BC797B BC799B BC799B BC799B BD380A BD377A	Application software suites contain add-on tools for use with specific OS's and estate contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for the Eplorer for vCenter - Watch out: Recovery manager for VMWare is superceded by mager Central for VMware! See chapter 9b! the Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware en has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyper-V Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for Cracle Media HPE 3PAR App Suite for Oracle Media HPE 3PAR 7200 Reporting Suite LTU HP 3PAR 7200 App Suite Hyper-V LTU HP 3PAR 7200 App Suite Exchange LTU HP 3PAR 7400 App Suite Exchange LTU HP 3PAR 7400 App Suite Hyper-V LTU	85, 85, 85, 85, 3.595, 3.595, 7.280, 7.280, 9.105,
Step 8a : A	D4T81AAE Application Sup The following applications: The VMWare vCenter, Hos Recovery Ma The Microsof provider The SQL suit The Oracle s a SKU's BD372A BD369A BD374A BD376A BD371A BD370A versions, just add t 1ses BC767B BD178B BC769B BC799B BC797B BC797B BC799B BC797B BC799B BC797B BD380A BD377A BD377A BD377A	Application software suites contain add-on tools for use with specific OS's and estate contains: Recovery Manager for VMWare, VASA Plug-in, Management Plugin for the Epolere for vCenter - Watch out: Recovery manager for VMWare is superceded by imager Central for VMware! See chapter 9b! the Exchange suite contains: Recovery Manager for Exchange and the VSS Hardware are has the Recovery Manager for SQL and its VSS hardware provider uite contains the Recovery manager for Oracle. HPE 3PAR App Suite for VMware Media HPE 3PAR App Suite for Hyper-V Media HPE 3PAR App Suite for Exchange Media HPE 3PAR App Suite for SQL Media HPE 3PAR App Suite for Oracle Media HPE 3PAR App Suite for Oracle Media HPE 3PAR 7200 Reporting Suite LTU HP 3PAR 7200 App Suite Exchange LTU HP 3PAR 7200 App Suite Fyper-V LTU HP 3PAR 7200 App Suite Hyper-V LTU HP 3PAR 7400 App Suite Exchange LTU HP 3PAR 7400 App Suite Exchange LTU HP 3PAR 74400 App Suite Exchange LTU	85, 85, 85, 85, 3,595, 3,595, 7,280, 7,280, 9,105, 9,105, 9,105,

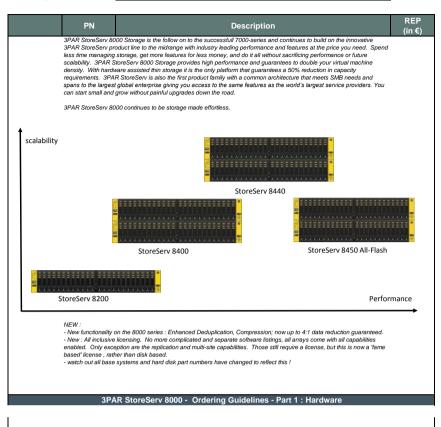
3PAR StoreServ 7000 27/97



	PN	Description	REP (in €)
Step 8b : S	StoreOnce Recov	ery Manager Central	
	(VMDKs) and daysame time, the stier of data protes storeOnce are sto the original or	C for VMware enables RMC customers to protect VMware Virtual Machine Disks at a stores using application-consistent snapshots for rapid online recovery. At the Express Protect feature (enabled by the StoreOnce Catalyst license) offers a second-action by facilitating direct backup from 3PAR StoreServ to StoreOnce. Backups to self-contained volumes, deduplicated to save space, and can be used to recover back ra different 3PAR StoreServ array, even if the original base volume is lost. VMware can access all of this functionality from within the familiar VMware vCenter onsole	
Physical Media	a SKU's		
P-I	D4U76A	HPE StoreOnce RMC Media	79,00
For electronic	versions, just add the	letters 'AE' to the end of the part number.	
Base License -	- 1 required per Storeor	nce	
P-I	D4U75A	HPE StoreOnce RMC LTU	935,00
For electronic	versions, just add the	letters 'AE' to the end of the part number.	
Array License	- 1 required per 3Par 72	xxxc array	
P-I	D4U64A	HP RMC-V 72xx/82xx LTU	2.336,00
P-I	D4U66A	HP RMC-V 74xx/84xx LTU	5.607,00
Step 10 : E	xpand your base	warranty with Carepacks : please consult your reseller or distributor.	

3PAR StoreServ 7000 28/97





The below steps show you how to configure an 3PAR StoreServ 8000 Solution. Follow each step carefully and you will end up with a decent budgettary idea. HOWEVER: a real configuration needs to be created using the HP Salesbuilder for Windows configurator. The StoreServ 8000 systems CANNOT BE ORDERED WITHOUT PROPER SUPPORT, NOR WITHOUT HP INSTALLATION SERVICES

3PAR StoreServ 8000 2997



REP (in €) Description Standard Configurations Factory integrated in an HP Rack Factory Integrated in an HP Rack in a Storage Centric configuration Fully Field integrated (everything ordered as separate parts..lots of boxes)
 Field integrated with minimal factory integration: disks preinstalled...a lot less boxes. The SKU's listed below are for Field Integration. If you want to use the 'minimal' factory integration, then for each item you order, you need to add an additional line, that repeats the quantity ordered and the partnumber with the suffix "#OD1' eg. Line 1 = 1 x K2Q36A 3PAR 8200 Base ; Line 2 becomes : 1 x K2Q36A#0D1 ALL OTHER FACTORY CONFIGURED UNITS CAN ONLY BE ORDERED USING SALESBUILDER FOR WINDOWS Base units contain:

-1 or 2 SFF Drive shelves, each holding 2 x 8000 series controllers.

-1 or 2 SFF Drive shelves, each holding 2 x 8000 series controllers.

-2 Dual redundant power supplies

-Rack Rall kit, power cords

-Rack Rall kit, power cords

-8 2000 controllers cannot be upgraded to 8 4xx

-8 4002 can be upgrade to a 8 4004 with the appropriate upgrade kit + installation support

-8 4402 can be upgrade to a 8 4404 with the appropriate upgrade kit + installation support

-8 450/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 450/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 450/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 450/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 450/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 450/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 450/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 450/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 450/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 440/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 440/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 440/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 440/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 440/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 450/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation support

-8 450/2 can be upgraded to 8 450/4 by adding the appropriate upgrade kit + installation s response.

- The warranty on all 3PAR StoreServ 8000 Solid State Drives is 5 years, parts only, Please refer to the 3PAR StoreServ 8000 Drives section for the complete list of SSD SKUs. The warranty on all other 3PAR StoreServ 8000 drives (SAS performance and Nearline SAS) is 3 years, parts only. HP warrants only that the Software media will be free of physical defects for a period of ninety (90) days from delivery. Total Fibre ports for the 8000 series controllers : up to $12 \times 16Gb$ for 8200, up to $24 \times 16Gb$ for the 84xxx/4 Total ISCSI/FCOE ports : up to $4 \times 10Gb$ for the 7200 and up to $8 \times 10Gb$ for the 7400/7450 Total up to $4 \times 10Gb$ /se thement ports or up to $8 \times 1Gb$ Ethernet ports for the 8200; up to $8 \times 1Gb$ Se ethernet or up to $16 \times 1Gb$ Se and $8 \times 1Gb$ Se ethernet or up to $16 \times 1Gb$ Se and $8 \times 1Gb$ Se ethernet or up to $16 \times 1Gb$ Se and $8 \times 1Gb$ Se ethernet or up to $16 \times 1Gb$ Se 1Gb on the 84xx PE 3PAR 8200 2N+SW Storage Field Base I6Y96B HPE 3PAR 8400 2N+SW Storage Field Bas 15.114.0 N H6Z02B HPE 3PAR 8400 4N+SW Storage Field Base 43.548.0 HPE 3PAR 8440 2N+SW Storage Field Base N H6Z07B 50.283.00 N H6Z13B HPE 3PAR 8440 4N+SW Storage Field Base 98,692.0 H6Z18B HPE 3PAR 8450 2N+SW Storage Field Base 50.283.0 N H6224B HPE 3PAR 8450 4N+SW Storage Field Base

Ou require advanced file sharing serving , select one or more StoreServe File control

NEW: 3PAR StoreServe File Controller V3 multi-node system

-2U Base chassis, can house up to 2 nodes in a single 2U chassis.

-Dual redundant power supplies

-Rack Rall kit, power cords

-up to 16 nodes in the file cluster!

Node specifications:

-Extensive protocol support: SMB (2.0, 2.1, 3.0), NFS (v2, v3, v4.1), WebDAV, HTTP/HTTPS, FTP/FTPS, ISCSI

-Data Deduplication (block level with file integration)

-DFS namespace integraztion, DFS-R replication, Active Directory services, etc.

-File server extended management: quota management, file screening, file classification, storage reporting

-Additional functionality: Firm tranagement console, Encryption support, and bis more!

-Intel® Xeon® E5-26093 (1,9GHz/1-core/15MB/869V) Processor

-32GB RAM, exp. to 5126B (requires replacing the standard 4x8GB DIMMs)

-2 x 1Gb Ethernet, FlexLOM for expansion (see list of options), 1 x PCI-Express slots free: for external FC HBA's to connect to the 3PAR system

- Dynamic Smart Array B140i with support for Raid 0,1,1+0,5, 5+0

-2 x 120GB 8G SATA Value Endurance SFF 2.5-in SC Enterprise Boot SSDs for O/S mirror per 3PAR StoreServ File Controller v3 Single Node 98.692,00 n 1b K2R66A HPF 3PAR StoreServ File Ctl v3 Svs 2.333.0 K2R67A HPE 3PAR StoreServ File Ctl v3 Sngl Node 6.432.0

3PAR StoreServ 8000 30/97



	PN		Des	scription	REP (in €)
Step 2 : Se	elect your addit	tional Host ports a	dapters (if require	d)	
	enclosure) m			the two controller nodes in a single 2U lapters. Different adapter types may not be	
	The 4 ports		n be individually confi	gured to connect to a host or to a remote	
	The two port	ts of the iSCSI/FCoE	adapter can be indivi	dually configured by the user as iSCSI or	
	The Etherne connectivity.	t ports can be used o	only with the 3PAR Fil	e Persona Software Suite for File services	
BA's for Blo	H6Z00A	HPE 3PAR 8000 4-p	t 16Gb FC Adapter		4.560,
	H6Z10A	HPE 3PAR 8000 2-p	t 10Gb iSCSI/FCoE Adptr		2.930,
BA's for file	e persona host con	HPE 3PAR 8000 2-p	t 10Gh Eth Adapter		1.485,
	H6Z05A	HPE 3PAR 8000 4-p			655,
ombo HBA'	s ! Can be used fo	or both Block and File	Persona		
N N	N9Z18A	HPE 3PAR 8000 4-p	t 16Gb/10Gb Combo Adptr		3.818,
	N9Z19A	shelves if necessar	t 10Gb Combo Adapter		2.972,0
		3PAR	Max Number	1	
		Base Unit	of drive shelves		
		8200	9		
		8400 2-node	11		
		8440 2-node	19]	
		8450 2-node	9		
		8400 4-node	22		
		8440 4-node	38		
		8450 4-node	18	J	
	E7Y71A		F(2.5in) Fld Int Dr Encl erv 8000 SFF JBOD. Supp	ports up to 24x 2.5" SFF Hard disks.	4.030,
	E7Y72A		(3.5in) Fld Int Dr Encl	,	4.030,
				orts up to 24x 3.5" LFF Hard disks.	
			0 controller to a JBOD in	an adjacent rack	
P-I P-I	E7V95A E7V96A Id the correct of For each drived drives per no	HPE 10m Mini SAS H HPE 25m Mini SAS H disk drives for you we type installed in the ode pair for SSD and	D Active Optical Cable D Active Optical Cable C Chassis. e array, the minimum	an adjacent rack recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for	2.617,0 3.084,0
P-I P-I	E7V95A E7V96A dd the correct of the	HPE 10m Mini SAS I HPE 25m Mini SAS I disk drives for you we type installed in the ode pair for SSD and Ds. grade quantity is 4 di	Active Optical Cable ID Active Optical Cable II chassis. e array, the minimum SAS performance HE rives per node pair or	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger.	
P-I P-I Step 4 : Ac	E7V95A E7V96A dd the correct of For each drives per no Nearline HDI Minimum up, Best practice	HPE 10m Mini SAS H HPE 25m Mini SAS H disk drives for you we type installed in tho ode pair for SSD and Ds. grade quantity is 4 dr e is to run Autonomic	Active Optical Cable ID Active Optical Cable II chassis. e array, the minimum SAS performance HE rives per node pair or	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for	
P-I P-I Step 4 : Ac	E7V95A E7V96A dd the correct of the	HPE 10m Mini SAS H HPE 25m Mini SAS H disk drives for you we type installed in the ode pair for SSD and Ds. grade quantity is 4 dr e is to run Autonomic lrives.	Active Optical Cable ID Active Optical Cable II chassis. e array, the minimum SAS performance HE rives per node pair or	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger.	
P-I P-I tep 4 : Ac	E7V95A E7V96A dd the correct of the	IHPE 10m Mini SAS H IHPE 25m Mini SAS H IHPE 25m Mini SAS H IHPE 35m Mini SAS H IND MINI SAS H	ID Active Optical Cable ID Active Optical Cable IT Chassis. e array, the minimum SAS performance HL rives per node pair or Rebalance (also known	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger.	3.084,(929,(
P-I P-I step 4 : Ac	E7V95A E7V96A dd the correct of For each driv drives per no Nearline HDI Minimum upp Best practice Nearline SAS disk d K2P95B K2P96B	HPE 10m Mini SAS I HPE 25m Mini SAS I disk drives for you ve type installed in the ode pair for SSD and Ds. grade quantity is 4 die is to run Autonomic irives. HPE 3PAR 8000 2TE HPE 3PAR 8000 4TE HPE 3PAR 8000 6TE	ID Active Optical Cable ID Active Optical Cable III Chassis. e array, the minimum SAS performance HE rives per node pair or Rebalance (also knowns SHSW 7.2K LFF HDD SHSW 7.2K LFF HDD SHSW 7.2K LFF HDD	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger.	929,0 1.595,0 2.109,0
P-I P-I Step 4 : Ac	E7V95A E7V96A dt the correct of for each drives per not Nearline HD Minimum up: Best practice Nearline SAS disk d K2P95B K2P96B K2P96B P9844B	HPE 10m Mini SAS I HPE 25m Mini SAS I disk drives for you ve type installed in the ode pair for SSD and Ds. grade quantity is 4 die is to run Autonomic irives. HPE 3PAR 8000 2TE HPE 3PAR 8000 4TE HPE 3PAR 8000 6TE	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable IT Chassis. e array, the minimum SAS performance HE rives per node pair or Rebalance (also knowns SASW 7.2K LFF HDD SASW 7.2K LFF HDD	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger.	929,6 1.595,6
P-I P-I tep 4 : Ac	E7V95A E7V96A dd the correct of For each driv drives per no Nearline HDI Minimum upp Best practice Nearline SAS disk d K2P95B K2P96B	HPE 10m Mini SAS I HPE 25m Mini SAS I disk drives for you ve type installed in the ode pair for SSD and Ds. grade quantity is 4 die is to run Autonomic irives. HPE 3PAR 8000 2TE HPE 3PAR 8000 4TE HPE 3PAR 8000 6TE	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable IT Chassis. e arrray, the minimum SAS performance HE rives per node pair or Rebalance (also known 3+SW 7.2K LFF HDD	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger.	929,1 1.595,1 2.109,1
P-I P-I tep 4 : Ac	E7V95A E7V96A dt the correct of For each drive per not Nearline HD Minimum up: Best practice K2P95B K2P96B K2P96B P9B44B SAS SSD disks. N8Y06B K2P96B	HPE 10m Mini SAS I HPE 25m Mini SAS I HPE 25m Mini SAS I disk drives for you ve type installed in th ode pair for SSD and Ds. grade quantity is 4 di e is to run Autonomic rives. HPE 3PAR 8000 2TE HPE 3PAR 8000 4TE HPE 3PAR 8000 6TE HPE 3PAR 8000 19. HPE 3PAR 8000 10.	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable IT chassis. e array, the minimum SAS performance HE rives per node pair or Rebalance (also know 3+SW 7.2K LFF HDD 3+SW T.ZK LFF HDD	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger.	929,1.595,2.109,12.531,12.561,19.3080
P-I P-I ttep 4 : Ac	E7V95A E7V96A Id the correct of the	HPE 10m Mini SAS I HPE 25m Mini SAS I HPE 25m Mini SAS I HPE 25m Mini SAS I HPE 35m Mini	ID Active Optical Cable ID Active Optical Cable IIT Chassis. e array, the minimum SAS performance HE rives per node pair or Rebalance (also know 3+SW 7.2K LFF HDD 3-SW 7.2K LFF HDD	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger.	929, 1.595, 2.109, 2.531, 2.661, 9.308, 17.291, 29.866,
P-I P-I P-I tep 4 : Ac	E7V96A E7V96A dd the correct of the	HPE 10m Mini SAS HPE 10m Mini SAS HPE 25m Mini SAS HPE 37m Mini SAS HPE 37m Mini SAS HPE 37m Mini SAS HPE 37m R 8000 15m HPE 37m R 8000	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable IT chassis. e array, the minimum SAS performance HE rives per node pair or Rebalance (also known Rebalance (also known Rebalance) Rebalance (also known) Rebalance (als	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger.	929, 1.595, 2.109, 2.531, 2.661, 9.308, 17.291, 29.866,
P-I P-I P-I tep 4 : Ac	E7V95A E7V96A Id the correct of the	HPE 10m Mini SAS I HPE 25m Mini SAS I HPE 25m Mini SAS I HPE 25m Mini SAS I SAS I MINI SAS I HPE 3PAR SOO 2TE HPE 3PAR 8000 4TE APAR	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable IT chassis. e array, the minimum SAS performance HE rives per node pair or Rebalance (also known Rebalance (also known Rebalance) Rebalance (also known) Rebalance (als	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger.	929, 1.595, 2.109, 2.531, 2.661, 9.308, 17.291,
P-1 P-1 tep 4: Ac 5" LFF 12G 1 N N N N N N N S" SFF 12G 3 N N N N N N N N N N N N N N N N N N N	E7V95A E7V96A In Veryor and the correct of the cor	HPE 10m Mini SAS I- HPE 25m Mini SAS I- HPE 25m Mini SAS I- HPE 25m Mini SAS I- HPE 3PAR 8000 2TE HPE 3PAR 8000 4TE	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable III Chassis. e array, the minimum SAS performance HE rives per node pair or Rebalance (also known 3+SW 7.2K LFF HDD 3-SW 7.2K LFF HDD 3-SW 7.2K LFF HDD 3-SW 7.2K LFF SD 3-SW 7.2K LFF	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger.	3.084, 929, 1.595, 2.109, 2.531, 2.91, 2.986, 50.480, 1.411, 1.261,
P-I P-I P-I tep 4 : Ac	E7V95A E7V96A dt he correct of for each drives per not Nearline HD Minimum up, Best practice Nearline SAS disk d K2P95B K2P95B K2P96B P9844B SAS SSD disks. N9Y06B K2P96B K2P96B R2P96B R2P97B	HPE 10m Mini SAS I HPE 25m Mini SAS I HPE 25m Mini SAS I HPE 25m Mini SAS I HPE 37m STAB I HPE 37m SSD and DS. HPE 37m S000 2T HPE 37m S000 400 HPE 37m S000 15. HPE 37m S000 16. HPE 37m S000 600 HPE 37m S000 600	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable IT Chassis. IT Chassis.	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger.	929, 1.595, 2.109, 2.531, 2.661, 9.308, 17.291, 29.866, 50.480,
P-1 Tep 4: Ac 5° LFF 12G 1 N N N N N N N N N N N N N	E7V95A E7V96A Id the correct of the	HPE 10m Mini SAS I- HPE 25m Mini SAS I- HPE 25m Mini SAS I- HPE 25m Mini SAS I- HPE 37m SAS I- HPE 37m SAS I- HPE 37m SAS I- HPE 37m S000 47E HPE 37m S000 67E	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable IT Chassis. e array, the minimum SAS performance HE rives per node pair or Rebalance (also known Rebala	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger.	929, 1.595, 2.109, 2.531, 9.308, 17.291, 29.866, 50.480, 1.411, 1.261, 1.291, 1.291, 1.291, 1.291, 1.291, 1.291, 1.291, 1.291,
P-I P-I P-I tep 4 : Ac	E7V95A E7V96A dthe correct of the co	HPE 10m Mini SAS I HPE 25m Mini SAS I HPE 25m Mini SAS I HPE 25m Mini SAS I HPE 3PAR 8000 2TE HPE 3PAR 8000 2TE HPE 3PAR 8000 400 HPE 3PAR 8000 15 HPE 3PAR 8000 15 HPE 3PAR 8000 10	ID Active Optical Cable ID Act	recommended initial quantity is eight (8) Dbs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger. wn as tunesys) after adding the drives.	929, 1.595, 2.109, 2.531, 2.661, 9.308, 17.291, 29.886, 50.480, 1.411, 1.261, 1.396, 1.733, 1.807,
P-I P-I tep 4 : Ac 5" LFF 12G 1 N N N N N N N N N N N N N N N N N N	E7V95A E7V96A Id the correct of the	HPE 10m Mini SAS HPE 25m Mini SAS HPE 25	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable III Chassis. e array, the minimum SAS performance HE rives per node pair or Rebalance (also known Rebalance (also known Rebalance) Rebalance Reba	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger.	929, 1.595, 2.109, 2.531, 2.661, 9.308, 17.291, 29.886, 50.480, 1.411, 1.261, 1.396, 1.733, 1.807,
P-I	E7V95A E7V96A IZV96A IZV96A IZV96A IZV96A IZV96B IZV95B IZV95B IZV96B IZ	HPE 10m Mini SAS I HPE 19m Mini SAS I HPE 19m Mini SAS I HPE 25m Mini SAS I HPE 25m Mini SAS I HPE 3PAR 8000 2TE HPE 3PAR 8000 4TE HPE 3PAR 8000 13. HPE 3PAR 8000 13. HPE 3PAR 8000 15. HPE 3PA	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable IT CHASSIS. e array, the minimum SAS performance HE rives per node pair or Rebalance (also know Rebalanc	recommended initial quantity is eight (8) Dbs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger. wn as tunesys) after adding the drives.	3.084, 929, 1.595, 2.109, 2.531, 9.308, 17.291, 29.866, 50.480, 1.411, 1.261, 1.733, 1.807, n is switchec
P-I tep 4 : Ac 5" LFF 12G N N N N N N N N N N N N N N N N N N N	E7V95A E7V96A Id the correct of the	HPE 10m Mini SAS HPE 25m Mini SAS HPE 3PAR 8000 2TE HPE 3PAR 8000 4TE HPE 3PAR 8000 3TE HPE 3PAR 8000 4TE HPE 3PAR 8000 4TE HPE 3PAR 8000 4TE HPE 3PAR 8000 1TE HPE 3	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable III Chassis. e array, the minimum SAS performance HE rives per node pair or Rebalance (also known SASW 7.2K LFF HDD SASW SFF SSD STB+SW SFF SSD	recommended initial quantity is eight (8) Dbs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger. wn as tunesys) after adding the drives.	929, 1.595, 2.109, 2.531, 9.308, 17.291, 9.308, 50.480, 1.411, 1.261, 1.126, 1.133, 1.807, 1 is switcher
P-I	E7V95A E7V96A IZV96A IZV96A IZV96A IZV96A IZV96B IZV95B IZV95B IZV96B IZ	HPE 10m Mini SAS HPE 25m Mini SAS HPE 25	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable IT CHASSIS. e array, the minimum SAS performance HE rives per node pair or Rebalance (also know Rebalanc	recommended initial quantity is eight (8) Dbs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger. wn as tunesys) after adding the drives.	929, 1.595, 2.169, 2.531, 9.308, 17.291, 29.866, 50.480, 1.411, 1.261, 817, 1.396, 1.733, 1.807, 1 is switchec
P-I	E7V95A E7V96A Id the correct of the	HPE 10m Mini SAS HPE 25m Mini SAS HPE 25	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable III Chassis. e array, the minimum SAS performance HE ives per node pair or Rebalance (also known 33-SW 7.2K LFF HDD 34-SW 7.2K LFF HDD 34-SW 7.2K LFF HDD 34-SW 7.2K LFF HDD 35-SW 7.2K LFF HDD 36-SW 5FF SSD 27B-SW SFF SSD 36B-SW 5FF SSD 35B-SW 5FF FE SSD	recommended initial quantity is eight (8) Dbs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger. wn as tunesys) after adding the drives.	3.084, 929, 1.595, 2.109, 2.531, 2.661, 9.308, 17.291, 29.866, 50.480, 1.111, 1.261, 1.733, 1.807, n is switchec
P-I	E7V95A E7V96A dd the correct of the	HPE 10m Mini SAS HPE 25m Mini SAS HPE 25	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable IT CHASSIS. e array, the minimum SAS performance HE rives per node pair or Rebalance (also knov 3+SW 7.2K LFF HDD 3+SW 5FF SSD 4TB+SW SFF SSD 4TB+SW SFF SSD 4TB+SW SFF SSD 4TB+SW 15K SFF HDD 16B+SW 10K SFF HDD 1B+SW 5FF FE SSD 1BH-SW SFF FE SSD 1BH-SW SFF FE SSD 1BH-SW SFF FE SSD 1BH-SW SFF FE SSD	recommended initial quantity is eight (8) Dbs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger. wn as tunesys) after adding the drives.	3.084, 929, 1.595, 2.109, 2.551, 9.308, 17.291, 29.866, 50.480, 1.411, 1.261, 1817, 1.396, 1.733, 1.807, 1 is switched 1.425, 19.020, 32.852, 55.528,
P-I	E7V95A E7V96A Id the correct of the	HPE 10m Mini SAS I- HPE 25m Mini SAS I- HPE 25m Mini SAS I- HPE 25m Mini SAS I- HPE 37m Mini SAS I- HPE 37	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable III Chassis. e array, the minimum SAS performance HE ives per node pair or Rebalance (also known 33-SW 7.2K LFF HDD 34-SW 7.2K LFF HDD 34-SW 7.2K LFF HDD 34-SW 7.2K LFF HDD 35-SW 7.2K LFF HDD 36-SW 5FF SSD 27B-SW SFF SSD 36B-SW 5FF SSD 35B-SW 5FF FE SSD	recommended initial quantity is eight (8) Dbs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger. wn as tunesys) after adding the drives.	3.084, 929, 1.595, 2.109, 2.531, 2.661, 9.308, 17.291, 29.866, 50.480, 1.111, 1.261, 1.733, 1.807, 1 is switchec 5.431, 10.425, 19.020, 32.852, 55.528,
P-I P-I tep 4 : Acc S" LFF 12G N N N N N N N N N N N N N N N N N N N	E7V95A E7V96A Id the correct of the	HPE 10m Mini SAS HPE 25m MINI SAS HPE 25	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable III Chassis. e array, the minimum SAS performance HE rives per node pair or Rebalance (also know Rebalan	recommended initial quantity is eight (8) Dbs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger. wn as tunesys) after adding the drives.	929, 1.595, 2.109, 2.531, 2.661, 9.308, 17.291, 29.886, 50.480, 1.411, 1.261, 1.396, 1.733, 1.807,
P-I tep 4 : Ac 5" LFF 12G 1 N N N N N N S" SFF 12G 5 N N N N N N N N N N N N N N N N N N N	E7V95A E7V96A dt the correct of the	HPE 10m Mini SAS I- HPE 25m Mini SAS I- HPE 25m Mini SAS I- HPE 25m Mini SAS I- HPE 3PAR 8000 2TE HPE 3PAR 8000 2TE HPE 3PAR 8000 4TE HPE 3PAR 8000 6TE HPE 3PAR 8000 12. HPE 3PAR 8000 13. HPE 3PAR 8000 15. HPE 3PAR 8000 16. HPE 3PAR 8000 16. HPE 3PAR 8000 16. HPE 3PAR 8000 6TE	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable IT CHASSIS. e array, the minimum SAS performance HE rives per node pair or Rebalance (also known Rebala	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger. wn as tunesys) after adding the drives. rives also requires the encryption license. Encryption ED drives !	929, 1.595, 2.109, 2.531, 9.308, 17.291, 1.9.866, 50.480, 1.1411, 1.261, 1.733, 1.507, 1.502, 1.020, 32.852, 55.528, 1.755, 2.362, 2.784,
P-I tep 4: Ac 5° LFF 12G 1 N N N N N N N N N N N N N N N N N N N	E7V95A E7V96A Id the correct of the	HPE 10m Mini SAS HPE 25m MIni SAS HPE 25	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable III Chassis. e array, the minimum SAS performance HE rives per node pair or Rebalance (also known Reb	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger. wn as tunesys) after adding the drives. rives also requires the encryption license. Encryption ED drives !	3.084, 929, 1.595, 2.109, 2.531, 9.308, 17.291, 29.866, 50.480, 1.411, 1.261, 817. 1.396, 1.733, 1.807, 1 is switchec 5.431, 10.425, 19.020, 32.852, 55.528, 1.755, 2.362, 2.784,
P-I tep 4 : Ac 5" LFF 12G N N N N N N N N N N N N N	E7V95A E7V96A dd the correct of the	HPE 10m Mini SAS HPE 25m MIni SAS HPE 25	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable IT CHASSIS. e array, the minimum SAS performance HE rives per node pair or Rebalance (also know Rebalanc	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger. wn as tunesys) after adding the drives. rives also requires the encryption license. Encryption ED drives !	929, 1.595, 2.109, 2.531, 1.595, 1.791, 1.79
P-I P-I tep 4 : Acc S" LFF 12G N N N N N N N N N N N N N N N N N N N	E7V95A E7V96A Id the correct of the	HPE 10m Mini SAS HPE 25m Mini SAS HPE 3PAR 8000 2TE HPE 3PAR 8000 4TE HPE 3PAR 8000 5TE HPE 3PAR 8000 6TE HPE 3PAR 8000 6TE HPE 3PAR 8000 6TE HPE 3PAR 8000 6TE HPE 3PAR 8000 5TE HPE 3PAR 8000 6TE H	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable IT CHASSIS. e array, the minimum SAS performance HE rives per node pair or Rebalance (also known Rebala	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger. wn as tunesys) after adding the drives. rives also requires the encryption license. Encryption ED drives !	929 1.595 2.109 2.531 1.261 9.308 17.291 29.866 50.480 1.1411 1.261 8177 1.396 1.733 1.8070 1.8070 1.9020 32.852 55.528 1.755 2.362 2.784
P-I	E7V95A E7V96A Id the correct of the	HPE 10m Mini SAS HPE 25m Mini SAS HPE 3PAR 8000 2TE HPE 3PAR 8000 4TE HPE 3PAR 8000 5TE HPE 3PAR 8000 6TE HPE 3PAR 8000 6TE HPE 3PAR 8000 6TE HPE 3PAR 8000 6TE HPE 3PAR 8000 5TE HPE 3PAR 8000 6TE H	ID Active Optical Cable ID Active Optical Cable ID Active Optical Cable IT CHASSIS. e array, the minimum SAS performance HE rives per node pair or Rebalance (also known Rebala	recommended initial quantity is eight (8) DDs, and twelve (12) drives per node pair for 2 drives per enclosure, whichever is larger. wn as tunesys) after adding the drives. rives also requires the encryption license. Encryption ED drives ! ED drives ! rives, same remarks as for SSD SED drives) of tuly supported and maintained by HP Services. The	929, 1.595, 2.109, 2.531, 9.308, 17.291, 1.29.866, 50.480, 1.11, 1.261, 1.733, 1.733, 1.733, 1.9020, 32.852, 55.528, 1.755, 2.362, 2.784,

3PAR StoreServ 8000 31/97



	PN	Description	REP (in €)
	3P:	ar StoreServ 8000 - Ordering Guidelines - Part 2 : Software	
		StoreServ 8000 Software bundles available :	
	 Functionality for re Activation of the er 	plication : peer motion, remote copy, peer persistence, etc.	
Step 6 : Ne	ed to connect to		
Otop o i ita		nclusive Multi-system software contains the following functionality :	
	HEL SEAR AIR	inclusive water-system software contains the following functionality.	
	• 3PAR Remote	Conv	
	• 3PAR Peer Pe		
	3PAR Cluster	Extension (CLX)	
	• 3PAR Peer Mo		
For electronic	versions, just add the	letters 'AE' to the end of the part number.	
Frame license	(1 required for suppor		
N	L7E69A	HPE 3PAR 8200 All-in Multi-system SW LTU	4.664,00
N	L7E70A	HPE 3PAR 8400 All-in Multi-system SW LTU	22.535,00
N	L7E71A	HPE 3PAR 8440 All-in Multi-system SW LTU	38.799,00
N	L7E72A	HPE 3PAR 8450 All-in Multi-system SW LTU	38.799,00
Step 7 : ne	ed to encrypt you		
	HPE 3PAR End	ryption licenses; Required to activate FIPS based encryption on FIPS SED Drives	
For electronic	versions, just add the	letters 'AE' to the end of the part number.	
Frame license	(1 required for suppor		
	L7B67A	HPE 3PAR 8200 Data Encryption LTU	3.285,00
	L7B91A	HPE 3PAR 8400 Data Encryption LTU	6.635,00
	L7C15A	HPE 3PAR 8440 Data Encryption LTU	8.295,00
	L7C39A	HPE 3PAR 8450 Data Encryption LTU	8.295,00
Step 8 : Re		ensive control on the support traffic for your 3PAR ?	
		cy Server works to implement customer-configurable remote service access	
		d on a customer-provided host, Policy Server provides the customer with ultimate	
		introl to allow or deny outbound communication or remote service connections to	
		E 3PAR StoreServ Storage system. Policy Server also serves as the centralized	
		ng and storing audit logs of all diagnostic data transfers and authorized remote	
	service connect	ions to and from all configured HPE 3PAR Storage systems.	
For electronic	versions, just add the	letters 'AE' to the end of the part number.	
	(1 required for suppor		
	TE400B	3PAR Policy Manager software LTU	13.635,00
Step 9 : Ex	coand vour base v	varranty with Support Services : please consult your reseller or distribut	or.

3PAR StoreServ 8000 32/97



DM	Description	REP
PN	Description	(in €)

Does data growth leave you struggling with complex, distributed, and costly data protection? Keep pace with StoreOnce Backup systems, disk-based data protection with StoreOnce deduplication.

StoreOnce Backup systems reduce the amount of backup data you need to store by up to 95%, so with our scale-out architecture you can pay-as-you-grow to retain up to 10 petabytes of data in a single pool. They provide automated backup and DR operations with all the features you'd expect from dedicated disk backup, and some you can only get from HP

StoreOnce Catalyst delivers industry-leading backup speeds of up to 100 TB/hour to meet shrinking backup windows, plus Federated Deduplication across the enterprise so you can dedupe data anywhere to suit your configuration.

Based on HP's single deduplication technology, StoreOnce, managing the movement of data between remote offices and enterprise data centers has never been easier.

Seamlessly integrating with your current backup applications, StoreOnce Backup systems provide flexible integration for both SAN and virtualized environments. With the StoreOnce 6500, Autonomic restart means a more resilient solution at a price/performance point that is up to 75% better than the leading competitor.

*Actual performance is dependent upon configuration data set type, compression levels, number of data streams, number of devices emulated and number of concurrent tasks, such as housekeeping or replication.

The New HPE StoreOnce Systems family includes:

- A new StoreOnce 3100 system; 1U solution with 5.5 TB of usable*** capacity (8 TB RAW), With speeds of up to 6.4 TB/hour* using HPE StoreOnce Catalyst.
- A new StoreOnce 3520 system, scalable 2U solution with 7.5 to 15.5 TB of usable*** capacity (12-24 TB RAW), With speeds of up to 12.7 TB/hour* using HPE StoreOnce Catalyst.
- A new StoreOnce 3540 system, scalable 2U solution with 15.5 TB to 31.5 TB of usable*** capacity (24-48 TB RAW), With speeds of up to 12.7 TB/hour* using HPE StoreOnce Catalyst.
- A new StoreOnce 5100 system, scalable 2U 12U solution with 36 TB to 216 TB of usable*** capacity (48-288 TB RAW), With speeds of up to 26.7 TB/hour* using HPE StoreOnce Catalyst.
- A new StoreOnce 5500 system, scalable 7U 22U solution with 36 TB to 864 TB of usable*** capacity (60TB -1PB RAW), With speeds of up to 37.7 TB/hour* using HPE StoreOnce Catalyst.

The HPE StoreOnce Backup family features:

- Flexible choice for number and types of connectivity, 10GbE-T, 10GbE, or 8Gb FC, on StoreOnce 3520, 3540 and 5100, Additionally 16Gb FC for the StoreOnce 5500
- Initial licenses for StoreOnce 3000-5000 family pre-installed in the factory
- IPv6 support for NFS and VT iSCSI interfaces
- Addition of a simple network wizard
- Gen9 Catalyst over Fibre Channel support on IBM AIX platforms
- Centralized Encryption Key Management support

	StoreOn	ce Backup systems - Ordering Guidelines - Part 1 : hardware units	
StoreOnce	3000 and 500	00 Series Base Units	
P-I	BB913A	HPE StoreOnce 3100 8TB System	7.593,00
		Supports up to 24 backup streams, 4 x gigabit connection, 4 x 2TB hard disk, Hardware raid 5. 8TB Raw capacity, 5.5TB net capacity, iSCSI and NAS only	
	These new system choices.	igher systems: please do not forget to add the necessary connectivity! tems now offer flexible I/O configurations,up to 4 HBA's can be added. See next paragraph for lered together with the Base units, the I/O card licenses will also be pre-installed at the factory.	
	activated. In or	d 3540 systems come preloaded with 12 x 2 or 4TB disks. However only 50% of capacity is refer to activate the total capacity, an upgrade license needs to be added to the system. Please grade options section for details.	
P-I	BB922A	HPE StoreOnce 3520 12TB System	10.406,00
		Supports up to 96 backup streams, 4x gigabit connection, 12 x 2TB hard disk (see remark above), Hardware raid 5. 12TB Raw capacity, 7.5TB net capacity. See the Connectivity section for I/O options.	
P-I	BB914A	HPE StoreOnce 3540 24TB System	14.019,00
		Supports up to 96 backup streams, 4x gigabit connection, 12 x 4TB hard disk (see remark above), Hardware raid 5. 24TB Raw capacity, 15.5TB net capacity. See the Connectivity section for I/O options.	
P-I	BB915A	HPE StoreOnce 5100 48TB System	43.364,00
		Supports up to 96 backup streams, 4x gigabit connection, 12 x 4TB hard disk (see remark above), Hardware raid 5. 24TB Raw capacity, 15.5TB net capacity. See the Connectivity section for I/O options.	
N P-I EOL	BB917A	HPE StoreOnce 5500 60TB System	109.346,00
		Supports up to 50 source streams, 4 x gigabit connection, 2 x 900GB 10K SAS in base unit for OS, Expansion shelf with 15 x 4TB hard disk, Hardware raid 6. Net capacity 36TB, Expandable to 864TB Net.	
N	BB917D	HPE StoreOnce 5500 60TB System	109.346,00

StoreOnce systems 33/97



P-I E P-I E		Lancia de la companya del companya del companya de la companya de	
P-I E P-I E		NEW: now with 3 year, on-site, NBD Warranty! Supports up to 50 source streams, 4 x gigabit connection, 2 x 900GB 10K SAS in base unit for OS, Expansion shelf with 15 x 4TB hard disk, Hardware raid 6. Net capacity 36TB, Expandable to 864TB Net.	
P-I E P-I E)00-5000 serie	es connectivity options	
P-I E	Up to 4 Cards can I	be added in any combination	
P-I E	BB926A	HPE StoreOnce 10GbE Network Card	2.336
	BB927A	HPE StoreOnce 10GbE-T Network Card	2.336
P.I F	BB928A	HPE StoreOnce 8Gb Fibre Channel Card	2.804
1 1	BB929A	HPE StoreOnce 16Gb Fibre Channel Card	4.673
P	Always add the cor	rresponding activation SKU !!!	
E	BB949A	HPE StoreOnce 10GbE Netwrk Exp LTU	1
E	BB950A	HPE StoreOnce 10GbE-T Netwrk Exp LTU	1
E	BB951A	HPE StoreOnce 8Gb Fibre Channel Card LTU	1
E	BB952A	HPE StoreOnce 16Gb Fibrechannel Card LTU	1
oreOnce 30	000-5000 Capa	acity upgrades	
reOnce 35x0			
Λ	Max. Capacity for 3	3520= 15,5TB usable capacity; for 3540 = 36TB usable capacity	
	BB944A	HPE StoreOnce 3520 12TB Capacity Upg LTU	4.673
P-I E	BB943A	HPE StoreOnce 3540 24TB Capacity Upg LTU	9.112
reOnce 5100			312
T	The StoreOnce 510	00 can have up to 5 extra capacity upgrades.	
		5100 = 216TB Net Capacity	
P-I E	BB916A	HPE StoreOnce 5100 48TB Capacity Upg Kit	37.383
		Allows customers to upgrade their 5100 with an extra 36TB usable capacity. Includes - 1 x D3650 with 12 x 4TB disk , Capacity expansion license entitlement document and installation guide	
a T	addition disk draw	hold up to 5 extra capacity expansion kits, after that just add up to three additional disk	
a T d	addition disk draw The base unit can I drawers each with	er. hold up to 5 extra capacity expansion kits, after that just add up to three additional disk 36TB net and another 5 expansion kits per drawer, for a maximum of 864TB net capacity!	46.729
a T d	addition disk draw	hold up to 5 extra capacity expansion kits, after that just add up to three additional disk 36TB net and another 5 expansion kits per drawer, for a maximum of 864TB net capacity! HPE StoreOnce 5500 44TB Cap Upg Kit	46.729
a T d	addition disk draw The base unit can I drawers each with	er. hold up to 5 extra capacity expansion kits, after that just add up to three additional disk 36TB net and another 5 expansion kits per drawer, for a maximum of 864TB net capacity!	46.729
a T c N E	addition disk draw The base unit can I drawers each with	hold up to 5 extra capacity expansion kits, after that just add up to three additional disk 36TB net and another 5 expansion kits per drawer, for a maximum of 864TB net capacity! HPE StoreOnce 5500 44TB Cap Upg Kit Allows customers to upgrade their 5500 with an extra 32TB usable capacity. Includes - 11 x 4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide.	46.729 58.178
a T c N E	addition disk draw The base unit can I drawers each with BB941D	hold up to 5 extra capacity expansion kits, after that just add up to three additional disk 36TB net and another 5 expansion kits per drawer, for a maximum of 864TB net capacity! HPE StoreOnce 5500 44TB Cap Upg Kit Allows customers to upgrade their 5500 with an extra 32TB usable capacity. Includes - 11 x 4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide. NEW: 3 year warranty, on-site, NBD	
N E	addition disk draw The base unit can I drawers each with BB941D	hold up to 5 extra capacity expansion kits, after that just add up to three additional disk 36TB net and another 5 expansion kits per drawer, for a maximum of 864TB net capacity! HPE StoreOnce 5500 44TB Cap Upg Kit Allows customers to upgrade their 5500 with an extra 32TB usable capacity. Includes - 11 x 4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide. NEW: 3 year warranty, on-site, NBD HPE StoreOnce 5500 60TB Drwr/Cap Upg Kit Allows customers to upgrade their 5500 with an extra 36TB usable capacity. Includes - 1 x D6000 JBOD + 15 x 4TB MDL SAS Disks, Capacity expansion license entitlement document	
N E	addition disk draw	hold up to 5 extra capacity expansion kits, after that just add up to three additional disk 36TB net and another 5 expansion kits per drawer, for a maximum of 864TB net capacity! HPE StoreOnce 5500 44TB Cap Upg Kit Allows customers to upgrade their 5500 with an extra 32TB usable capacity. Includes - 11 x 4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide. NEW: 3 year warranty, on-site, NBD HPE StoreOnce 5500 60TB Drwr/Cap Upg Kit Allows customers to upgrade their 5500 with an extra 36TB usable capacity. Includes - 1 x D6000 JBOD + 15 x 4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide. NEW: 3 year warranty, on-site, NBD	58.178
N E N E N P-I EOL E	addition disk draw	hold up to 5 extra capacity expansion kits, after that just add up to three additional disk 36TB net and another 5 expansion kits per drawer, for a maximum of 864TB net capacity! HPE StoreOnce 5500 44TB Cap Upg Kit Allows customers to upgrade their 5500 with an extra 32TB usable capacity. Includes - 11 x 4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide. NEW: 3 year warranty, on-site, NBD HPE StoreOnce 5500 60TB Drwr/Cap Upg Kit Allows customers to upgrade their 5500 with an extra 36TB usable capacity. Includes - 1 x D6000 JBOD + 15 x 4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide. NEW: 3 year warranty, on-site, NBD HPE StoreOnce 5500 44TB Cap Upg Kit Allows customers to upgrade their 5500 with an extra 32TB usable capacity. Includes - 11 x	58.178

StoreOnce systems 34/97



	PN	Description	REP (in €)
P-I	BB889A	HPE StoreOnce 4400/4700 Catalyst LTU	6.729,0
P-I	BB906A	HPE StoreOnce 4900/5500 Catalyst LTU	29.089,0
reOnce	Replication Li	censes	
electronic	versions, just add th	ne letters 'AE' to the end of the part number.	
		Needed on each machine that will be a target for StoreOnce replication.	
P-I	BB884A	HPE StoreOnce 2000/3000 Replication LTU	607,0
P-I	BB885A	HPE StoreOnce 4500/5100 Replication LTU	3.738,0
P-I	BB886A	HPE StoreOnce 4700 Replication LTU	5.607,0
P-I	BB905A	HPE StoreOnce 4900/5500 Replication LTU	50.421,0
reOnce	Encryption Lie	censes	
electronic	versions, just add th	ne letters 'AE' to the end of the part number.	
		An StoreOnce Security Pack license (2600, 2700, 4200, 4500, 4400, 4700) is required for each appliance. This license contains both the Data-at-rest encryption and the secure erase functionality.	
P-I	BB891A	HPE StoreOnce 2000/3000 Sec Pack LTU	304,0
P-I	BB892A	HPE StoreOnce 4500/5100 Sec Pack LTU	1.495,0
P-I	BB893A	HPE StoreOnce 4400/4700 Security Pk LTU	5.234,0
P-I	BB907A	HPE StoreOnce 4900/5500 Sec Pack LTU	9.696,0

StoreOnce systems 35/97



	PN	Description	REP (in €)
StoreOnce	2000-4000 se	ries Capacity upgrades	(5)
toreOnce 2900			
	Max. Capacity fo	or 2900 = 31,5TB usable capacity	
P-I	BB911A	HPE StoreOnce 2900 24TB Capacity Upgrade	9.112,0
StoreOnce 4500	0/4700		
		4500 can have up to 3 extra capacity upgrades, the 4700 can handle up to 7 capacity upgrades.	
P-I	BB881A	HPE StoreOnce 4500/4700 24TB Upgrade Kit	28.411,0
		Allows customers to upgrade their 4430/4500/4700 with an extra 20TB usable capacity. Includes - 1 x D2600 with 12 x 2TB disk , Capacity expansion license entitlement document and installation guide	
P-I	BB909A	HPE StoreOnce 4500 48TB Upgrade Kit	52.336,0
		Allows customers to upgrade their 4500 with an extra 36TB usable capacity. Includes - 1 x D2600 with 12 x 4TB disk , Capacity expansion license entitlement document and installation guide	
StoreOnce 4900	0		
P-I		an hold up to 5 extra capacity expansion kits, after that just add the second Disk drawer for et and another 5 expansion kits HPE StoreOnce 4900 44TB Cap Upgrade Kit	58.178,0
F-1	DD900A	THE StoleOffice 4900 441B Cap Opplade Nit	30.170,0
		Allows customers to upgrade their 4900 with an extra 32TB usable capacity. Includes - 11 x 4TB MDL SAS Disks. Capacity expansion license entitlement document and installation quide.	
	PROMA	4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide	05.005.0
P-I	BB904A		65.935,C
P-I	BB904A	4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide	65.935,0
	BB904A Gen3 Series	4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide HPE StoreOnce 4900 60TB Drw/Cap Upg Kit Allows customers to upgrade their 4900 with an extra 36TB usable capacity. Includes - 1 x D6000 JBOD + 15 x 4TB MDL SAS Disks, Capacity expansion license entitlement document	65.935,C
StoreOnce		4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide HPE StoreOnce 4900 60TB Drw/Cap Upg Kit Allows customers to upgrade their 4900 with an extra 36TB usable capacity. Includes - 1 x D6000 JBOD + 15 x 4TB MDL SAS Disks, Capacity expansion license entitlement document	
StoreOnce	Gen3 Series	4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide HPE StoreOnce 4900 60TB Drw/Cap Upg Kit Allows customers to upgrade their 4900 with an extra 36TB usable capacity. Includes - 1 x D6000 JBOD + 15 x 4TB MDL SAS Disks, Capacity expansion license entitlement document	
StoreOnce StoreOnce Cap	Gen3 Series pacity upgrades	HPE StoreOnce 4210 Upgrade Kit Allows customers to upgrade their 4210 from 4 to 9TB Net capacity. Includes - 1 x D2600 with 12 x 500GB disk, Capacity expansion license entitlement document and installation guide HP StoreOnce 4210 Upgrade Kit Allows customers to upgrade their 4210 from 4 to 9TB Net capacity. Includes - 1 x D2600 with 12 x 500GB disk, Capacity expansion license entitlement document and installation guide HP StoreOnce 4220/4420 Upgrade Kit	14.019,0
StoreOnce StoreOnce Cap P-I EOL	Gen3 Series Pacity upgrades BB864A	HPE StoreOnce 4210 Upgrade Kit Allows customers to upgrade their 4210 from 4 to 9TB Net capacity. Includes - 1 x D2600 with 12 x 500GB disk , Capacity expansion license entitlement document and installation guide HP StoreOnce 4210 Upgrade Kit Allows customers to upgrade their 4210 from 4 to 9TB Net capacity. Includes - 1 x D2600 with 12 x 500GB disk , Capacity expansion license entitlement document and installation guide (can also be used for D2D4106)	14.019,0
StoreOnce StoreOnce Cap P-I EOL	Gen3 Series Pacity upgrades BB864A	HPE StoreOnce 4900 60TB Drw/Cap Upg Kit Allows customers to upgrade their 4900 with an extra 36TB usable capacity. Includes - 1 x D6000 JBOD + 15 x 4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide HP StoreOnce 4210 Upgrade Kit Allows customers to upgrade their 4210 from 4 to 9TB Net capacity. Includes - 1 x D2600 with 12 x 500GB disk , Capacity expansion license entitlement document and installation guide (can also be used for D2D4106) HP StoreOnce 4220/4420 Upgrade Kit Allows customers to upgrade their 4120 from 8 to 18TB Net capacity. Includes - 1 x D2600 with 12 x 1TB disk , Capacity expansion license entitlement document and installation guide (can also be used for D2D4112/4312) HP StoreOnce 4430 Upgrade Kit	14.019,0 25.701.0 46.729,0
StoreOnce StoreOnce Cap P-I EOL P-I EOL	Gen3 Series Pacity upgrades BB864A EH995C	HPE StoreOnce 4900 60TB Drw/Cap Upg Kit Allows customers to upgrade their 4900 with an extra 36TB usable capacity. Includes - 1 x D6000 JBOD + 15 x 4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide HP StoreOnce 4210 Upgrade Kit Allows customers to upgrade their 4210 from 4 to 9TB Net capacity. Includes - 1 x D2600 with 12 x 500GB disk , Capacity expansion license entitlement document and installation guide (can also be used for D2D4106) HP StoreOnce 4220/4420 Upgrade Kit Allows customers to upgrade their 4120 from 8 to 18TB Net capacity. Includes - 1 x D2600 with 12 x 1TB disk , Capacity expansion license entitlement document and installation guide (can also be used for D2D4112/4312)	14.019,0 25.701.0
StoreOnce StoreOnce Cap P-I EOL P-I EOL	Gen3 Series Pacity upgrades BB864A EH995C EH986B	ATB MDL SAS Disks, Capacity expansion license entitlement document and installation guide HPE StoreOnce 4900 60TB Drw/Cap Upg Kit Allows customers to upgrade their 4900 with an extra 36TB usable capacity. Includes - 1 x D6000 JBOD + 15 x 4TB MDL SAS Disks, Capacity expansion license entitlement document and installation guide HP StoreOnce 4210 Upgrade Kit Allows customers to upgrade their 4210 from 4 to 9TB Net capacity. Includes - 1 x D2600 with 12 x 500GB disk , Capacity expansion license entitlement document and installation guide (can also be used for D2D4106) HP StoreOnce 4220/4420 Upgrade Kit Allows customers to upgrade their 4120 from 8 to 18TB Net capacity. Includes - 1 x D2600 with 12 x 1TB disk , Capacity expansion license entitlement document and installation guide (can also be used for D2D4112/4312) HP StoreOnce 4430 Upgrade Kit Allows customers to upgrade their 4430 from 16 up to 76TB of usable capacity. Includes - 1 x D2600 with 12 x 2TB disk , Capacity expansion license entitlement document and installation	14.019,0 25.701,0

StoreOnce systems 36/97



StoreOnce Backup Systems

ı	DN	Description	REP
١	PN	Description	(in €)

StoreOnce systems 37/97



DNI	Description	REP
PN	Description	(in €)

Low-cost, next-gen storage that scales with you

The HPE StoreVirtual 3200 Storage system is a new dual-controller active/active architecture designed to provide host connectivity via the industry's latest host interconnects: 8/16Gb Fibre Channel, 10GbE iSCSI, and 1GbE iSCSI.

Coupled with rich data services and a new Web-based management interface, this new array is also focused on driving entry storage to very aggressive entry price points.

The StoreVirtual inherits a lot of its functionality from the legacy Lefthand OS: thin provisioning, reservationless snapshots, Network RAID, applicaiton managed snasphots and clones, adaptive optimization and Remote Copy.

However some major differences are: instead of a pure scale-out solution, the SV3200 is a scale-up solution, much like the MSA series. The SV3200 can scale from 4 up to 100 disks and contrary to the 4000 series, this means only adding disks and if needed JBODs! It is only the first entry level array that really can claim up to five 9's, due to the built-in network RAID functionality (which comes on top of standard controller based disk raid!)

Controllers	6-core 64-bit CPU
	8GB NVDIMM Cache per controller, Battery backed (for moving the data from RAM to flash)
Max. Drives	Up to 200 SFF or 96 LFF drives in a scale out configuration
Expansion	Up to six SFF and/or LFF 2U drive enclosures with scale out
Drive types, 12G SAS:	
SFF SSDs	400GB, 800GB, 1.6TB, 3.2TB
LFF SSDs	400GB, 800GB
SFF HDDs	15,000 RPM: 300GB, 600GB
	10,000 RPM: 300GB, 600GB, 900GB, 1.2TB, 1.8TB
	7,200 RPM SAS-MDL: 2.0TB
LFF HDDs:	7,200 RPM SAS-MDL: 2TB, 4TB, 6TB, 8TB
Max Capcity:	768TB maximum including expansion
Storage expansion options	HPE StoreVirtual 3200 LFF Drive Enclosures (2U)
	HPE StoreVirtual 3200 SFF Drive Enclosure (2U)
	Up to three drive enclosures supported per controller pair.
Host interfaces :	8/16Gb Fibre Channel (Four ports, speed determined by SFP+ module)
	1GhE iSCSI (Four or eight ports)

Technical specifications

10GbE iSCSI with SFP+ or 10Gbase-T (Four ports)

Compatible operating systems The HPE StoreVirtual 3200 supports a wide variety of operating systems. For a complete list of supported

operating systems, visit HPE Storage SPOCK at https://h20272.www2.hpe.com/spock/

2U base array, 2U LFF, or SFF drive enclosures

Warranty (parts-labor-onsite) 3-0-0

New for February 2017:

- scale-out to two iSCSI based systems, effectively doubling the capacity and performance overnight!
- Multi-site capability for iSCSI systems : now you can do sync replication with your SV3200 between two
- Requires a third site for FOM, also requires advanced data services license for each site.
- DSM for Windows! Increases performance in a multipathing environment.
- StoreVirtual OS site bundle : for environments where no external downloads are possible, updates all firmware, etc in a single pack.

New for December 2016:

- New lower cost 10Gb Controllers with 10Gbase-T
- Support for 8TB MDL SAS disk drives
- Added Write Intensive SSD drives, both in LFF and SFF. These drives offer higher resilience compared to the Mixed use drives.
- New functionality :

Introduction of the StoreVirtal 3000 file controller: add low-cost file serving to your StoreVirtual 3200, with an integrated management experience!

Based on the newest Windows Storage Server 2016 Standard Edition, with built-in quota management, deduplication, usage reporting (eg. for intra departement invoicing!) Clusterable out-of-the box for superior high availability

StoreVirtu	StoreVirtual 3200 Base Units			
Base units, al	lways come with 2	controllers		
P-I	N9X16A	HPE SV3200 4x1GbE iSCSI SFF Storage	5.356,00	
P-I	N9X17A	HPE SV3200 4x1GbE iSCSI LFF Storage	5.356,00	
P-I	N9X18A	HPE SV3200 8x1GbE iSCSI SFF Storage	6.279,00	
P-I	N9X19A	HPE SV3200 8x1GbE iSCSI LFF Storage	6.279,00	
P-I	N9X20A	HPE SV3200 4x10GbE iSCSI SFF Storage	6.833,00	
P-I	N9X21A	HPE SV3200 4x10GbE iSCSI LFF Storage	6.833,00	

StoreVirtual 3200 38/97



	PN	Description	REP
		·	(in €)
	P-I N9X22A HPE SV3200 4x10GBase-T SFF Storage P-I N9X23A HPE SV3200 4x10GBase-T LFF Storage P-I N9X24A HPE SV3200 4x16Gb FC SFF Storage P-I N9X25A HPE SV3200 4x16Gb FC LFF Storage P+ for the fibre channel and 10Gb iSCSI base units P-I N9X01A HPE SV3000 8Gb 2-pack FC SFP+ XCVR P-I N9X02A HPE SV3000 16Gb 2-pack FC SFP+ XCVR P-I N9X03A HPE SV3000 10Gb 2-pack iSCSI SFP XCVR		5.799,00
		g .	5.799,00
		ů .	6.095,00
		·	6.095,00
		·	174,00
			695,00
P-I	N9X03A	HPE SV3000 10Gb 2-pack iSCSI SFP XCVR	651,00
StoreVirtu	ıal 3200 File Cor	ntroller	
File controlle	r unit		
P-I	Q0F66A	HPE StoreVirtual 3000 File Controller	3.972,00
		Kit contents: SV3000 file controller, based on ProLiant DL120. Intel E5-2603v4 CPU; 8GB	
		Ram, 2x 120GB SATA SSD for OS; 4 x 1Gb Ethernet NIC, 900W redundant power supplies	
		and fans and Windows Storage Server 2016 Standard Edition. This version can be	
		clustered , that requires a minimum of 2 SV3000 file controller nodes; up to maximum of 16	
		nodes.	
File controlle	r expansions		
P-I	805347-B21	HPE 8GB 1Rx8 PC4-2400T-R Kit	260,00
StoreVirtu	ial 3200 Expans		
JBODs	- CO - Aparic		
P-I	N9W99A	HPE SV3000 LFF Drive Enclosure	2.832.00
F-1	NOVVOOA	Kit contents: SV3200 Base JBOD; Supports up to 12x 3.5" LFF SV3200 Hard disks.	2.032,00
		Supports the addition of up to 3 extra SV3200 LFF JBOD	
P-I	N9X00A	HPE SV3000 SFF Drive Enclosure	2.832.00
	110/100/1	Kit contents: SV3200 Base JBOD; Supports up to 25x 2.5" SFF SV3200 Hard disks.	2.002,00
		Supports the addition of up to 3 extra SV3200 SFF JBOD	
SAS cables		Supporte the dudition of the Cooking Crozes of Propos	
	V3200 controller to	BOD or JBOD to JBOD, if a longer cable is desired.	
Connecting 3	716195-B21	HP External 1.0m (3ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable	100,00
	716195-B21 716197-B21	HP External 2.0m (6ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable	130.00
			130,00
StoreVirtu	ıal 3200 Softwar	e	
		SV3200 Advanced data services contain the necessary software license to activate the	
		following features :	
		- Adaptive Optimization (Auto-tiering)	
		- Remote Copy (application consistent snapshot replication)	
P-I	N9Y66A	HPE SV3200 Advanced Data Services LTU	2.869,00
P-I	N9Y66AAE	HPE SV3200 Advanced Data Services E-LTU	2.869,00
		SV3200 Migration manager facilitates the migration from legacy StoreVirtual arrays.	
		Minimum Lefthand OS level required is 12.5. allows Imigrating from both StoreVirtual VSA	
		as well as 4xxx series arrays.	
P-I	P9V08A	HPE SV3200 Migration Manager LTU	83,00
P-I	P9V08AAE	HPE SV3200 Migration Manager E-LTU	83,00
F-1	1 3 VOUAAL	THE E 0 V 0 2 00 I WING I CHICAGO I THE I CHICAGO I CHIC	65,00

Store Virtual 3200 39/97



	PN	Description	REP (in €)
StoreVirtu	al 3200 disk drive		
3.5" LFF 12G	7,2K rpm MDL SAS disk	drives. These are 512e drives	
P-I	N9X10A	HPE SV3000 2TB 12G SAS 7.2K LFF MDL HDD	539,00
P-I	N9X11A	HPE SV3000 4TB 12G SAS 7.2K LFF MDL HDD	710,00
P-I	N9X12A	HPE SV3000 6TB 12G SAS 7.2K LFF MDL HDD	930,00
P-I	N9X13A	HPE SV3000 8TB 12G SAS 7.2K LFF MDL HDD	1.182,00
3.5" LFF SSD	12G SAS drives. Write In	tensive SSD drives! Higher Resilience than Mixed Use.	
P-I	Q0F83A	HPE SV3000 400GB 12G SAS WI LFF CC SSD	2.418,00
P-I	Q0F84A	HPE SV3000 800GB 12G SAS WI LFF CC SSD	4.681.00
3.5" LFF SSD	12G SAS drives, Mixed U	se.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
P-I	N9Z14A	HPE SV3000 400GB 12G SAS 3.5in MU CC SSD	1,731.00
P-I	N9Z15A	HPE SV3000 800GB 12G SAS 3.5in MU CC SSD	3.291.00
2.5" SFF SSD	12G SAS drives. New Wr	ite Intensive SSD drives! Higher Resilience.	5.25.,550
P-I	N9X87A	HPE SV3000 200GB 12G SAS 2.5in WI SSD	1,353.00
P-I	N9X88A	HPE SV3000 400GB 12G SAS 2.5in WI SSD	2.090,00
P-I	N9X89A	HPE SV3000 800GB 12G SAS 2.5in WI SSD	3.911,00
2.5" SFF SSD	12G SAS drives. New Mix	ced Use SSD drives!	
P-I	N9X84A	HPE SV3000 400GB 12G SAS 2.5in MU SSD	1.731,00
P-I	N9X85A	HPE SV3000 800GB 12G SAS 2.5in MU SSD	3.291,00
P-I	N9X86A	HPE SV3000 1.6TB 12G SAS 2.5in MU SSD	6.225,00
P-I	N9Z13A	HPE SV3000 3.2TB 12G SAS 2.5in MU SSD	10.843,00
2.5" SFF 12G	15K rpm SAS disk drives		
P-I	N9X14A	HPE SV3000 300GB 12G SAS 15K SFF HDD	411,00
P-I	N9X15A	HPE SV3000 600GB 12G SAS 15K SFF HDD	598,00
2.5" SFF 12G	10K rpm SAS disk drives		
P-I	N9X04A	HPE SV3000 300GB 12G SAS 10K SFF HDD	258,00
P-I	N9X05A	HPE SV3000 600GB 12G SAS 10K SFF HDD	411,00
P-I	N9X06A	HPE SV3000 900GB 12G SAS 10K SFF HDD	531,00
P-I	N9X07A	HPE SV3000 1.2TB 12G SAS 10K SFF HDD	657,00
P-I	N9X08A	HPE SV3000 1.8TB 12G SAS 10K SFF HDD	959,00
2.5" SFF 12G	7,2K rpm MDL SAS disk		
P-I	N9X09A	HPE SV3000 2TB 12G SAS 7.2K SFF MDL HDD	807,00

Store Virtual 3200 40/97



	PN		Description	REP (in €)
Fibre Chann	el switches & HE	BA's :	StoreFabric	
iSCSI : pleas	se refer to the Ne	tworking catalogue		
Expand you	r base warranty	with Carepacks : please	consult the Carepack	central website !

Store Virtual 3200 41/97



StoreVirtual 4000 Series

PN	Description	REP (in €)
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The StoreVirtual 4000 scalable storage solutions key features :

- · Highly scalable, easy to use storage solution with superior HA and DR capabilities
- · Consolidate storage for Windows, Linux and VMWare environments,
- · Rack mount chassis form factor
- · Based on Lefthand OS
- · Models with SAS or Midline SAS drives
- · Software included support for
 - Network RAID 10,5 or 6 (RAID 10= Synchronous Replication) with online RAID level migration
 - Snapshots, Volume Clones etc
 - Remote Copy: Asynchronous Replication with Bandwidth Throttling
 - Multi-Site HA/DR Synchronous Replication
 - Peer Motion for data tiering, non-disruptive upgrades, data migration, etc
 - Online Software Upgrades
 - Self-Healing Storage
- Storage Controllers: minimum of 2 per SAN, a cluster of 3 Storage systems provides triple redundancy
- Network RAID Levels (per volume)
 - RAID 10; 10+1; 10+2 protect against double disk, system, and site failures
 - Network RAID 5 : protects against single disk or single controller outages
 - Network RAID 6: protects against double disk or double controller outages
- Hardware RAID Levels 10, 5, 6 per storage system
- · Hardware Availability features
- o Hot-plug hard drives, redundant hot plug power supplies and fans
- o ECC memory
- o Integrated Smart Array P420 w/ 2GB Flash-backed cache
- o Hyper-redundant clustered storage

Remote management through iLO4 advanced

Fibre Channel Gateway support: allows for VMotion between iSCSI & Fibre Channel SAN!

Octobre 2015: Lefthand OS 12.5

- 2-node Quorum, ideal for ROBO organisations
- · Split Network configurations, both Physical (NICs) as logical (VLANs)
- KVM support for Red Hat, CentOS and OpenStack linux
- OpenSSL vulnerabilities patched

June 2015: Lefthand OS 12.0

• T10-Unmap for reclaiming unused space on host systems. Supported on Windows 2012/2012 R2; VMWAre 5.1 or higher. Linux support TBD.

Warning: P4000 G2 systems based on MDL SAS drives, wanting to use to this feature require a memory upgrade (see below in the upgrade section)

- VMWare Multi-Path extension module ('intelligent multipathing), increased VSA I/O performance up to 15% I
- Enhanced REST functionality for Cloud integration , third party management integration (API + manuals now available for developpers)

		StoreVirtual Appliances - Models Overview	
StoreVirtual	StoreVirtual 4130		
		4 SFF SAS drives, 600GB, 6G SAS 10,000 RPM Single CPU - Intel Xeon Hex core 5500/ 5600 series at 2.0 GHz 8 GB RAM Redundant hot swap power supplies (460W CS Platinum Plus Hot Plug) 2GB Flash backed write cache Support for RAID 5, 6, 10 Quad port 1Gbit NIC iLO4 Management - iLO Advanced Pack Smart Array Advanced Pack 2.01	
P-I EOL	B7E16A	HP StoreVirtual 4130 600GB SAS Storage	9.439,00

StoreVirtual 4000 42/97



StoreVirtual 4000 Series

	PN	Description	REP (in €)
StoreVirtual	4330		
		8 SFF 6G SAS or MDL SAS drives Single CPU - Intel Xeon Hex core 5500/ 5600 series at 2.0 GHz 32 GB RAM Redundant hot swap power supplies (460W CS Platinum Plus Hot Plug) 2GB Flash backed write cache Support for RAID 5, 6, 10 Quad port 1Gbit NIC iLO4 Management - iLO Advanced Pack Smart Array Advanced Pack 2.01	
P-I EOL	B7E17A	HP StoreVirtual 4330 450GB SAS Storage	12.710,00
		1 x 4330 Controller, with 8 x 450GB 10K rpm SFF SAS disks	
P-I EOL	B7E18A	HP StoreVirtual 4330 900GB SAS Storage	21.028,00
		1 x 4330 Controller, with 8 x 900GB 10K rpm SFF SAS disks	
P-I EOL	B7E19A	HP StoreVirtual 4330 1TB MDL SAS Storage	12.710,00
		1 x 4330 Controller, with 8 x 1TB 7,2K rpm SFF MDL SAS disks	
P-I EOL	B7E20A	HP StoreVirtual 4330FC 900GB SAS Storage	23.364,00
		1 x 4330 Controller, with 8 x 900GB 10K rpm SFF SAS disks, 2 x 8Gb Fibre Channel ports & 2 x 10Gb Ethernet Ports	
StoreVirtual	4335 Hyhr		
Otore virtual			
		3 x 400GB SSD and 7 x 900GB SAS Drives Intel E5-2640 V2, 2,0GHz (2.5GHz Turbo), 8 core 32 GB RAM Redundant hot swap power supplies (460W CS Platinum Plus Hot Plug) 2GB Flash backed write cache Disk Raid 5 preconfigured. Quad port 1Gb NIC and dual port 10Gb NIC iLO4 Management - iLO Advanced Pack Smart Array Advanced Pack 2.01	
P-I EOL	F3J70B	HP StoreVirtual 4335 Hybrid Storage	31.098,00
		1 x 4335 v2 Controller, with 3 x 400GB SSD disk and 7 x 900GB 10K rpm SFF SAS disks	
StoreVirtual	4530		
		12 LFF 6G SAS or MDL SAS drives Intel E5-2620 2.0Ghz, six core 64 GB RAM Redundant hot swap power supplies (750W CS Platinum Plus Hot Plug) 2GB Flash backed write cache Support for RAID 5, 6, 10 (MDL SAS, no RAID 5) Quad port 1Gbit NIC Dual port 10Gb NIC iLO4 Management - iLO Advanced Pack Smart Array Advanced Pack 2.01	
P-I EOL	B7E25B	HP StoreVirtual 4530 450GB SAS Storage	25.701,00
		1 x 4530 Controller, with 12 x 450GB 15K rpm SFF SAS drives in a LFF carrier	
P-I EOL	B7E26B	HP StoreVirtual 4530 600GB SAS Storage	28.037,00
	D7=22 :	1 x 4530 Controller, with 12 x 600GB 15K rpm SFF SAS drives in a LFF carrier	0
P-I EOL	B7E23A	HP StoreVirtual 4530 2TB MDL SAS Storage 1 x 4530 Controller, with 12 x 2TB 7,2K rpm SFF MDL SAS disks	24.860,00
D. 501	D7E044	·	00 007 00
P-I EOL	B7E24A	HP StoreVirtual 4530 3TB MDL SAS Storage 1 x 4530 Controller, with 12 x 3TB 7,2K rpm SFF MDL SAS disks	29.907,00
P-I EOL	F3J69A	HP StoreVirtual 4530 4TB MDL SAS Storage	37.383,00
		1 x 4530 Controller, with 12 x 4TB 7,2K rpm SFF MDL SAS disks	211200,00

StoreVirtual 4000 43/97



StoreVirtual 4000 Series

	PN	Description	REP (in €)
StoreVirtual	4730		
		25 SFF 6G SAS SAS drives Single CPU - Intel Xeon Hex core 5500/ 5600 series at 2.0 GHz 64 GB RAM Redundant hot swap power supplies (750W CS Platinum Plus Hot Plug) 2GB Flash backed write cache Support for RAID 5, 6, 10 Quad port 10Gb NIC Dual port 10Gb NIC iLO4 Management - iLO Advanced Pack Smart Array Advanced Pack 2.01	
P-I EOL	B7E27A	HP StoreVirtual 4730 600GB SAS Storage	42.991,00
		1 x 4730 Controller, with 25 x 600GB 10K rpm SFF SAS disks	
P-I EOL	B7E28A	HP StoreVirtual 4730 900GB SAS Storage	52.336,00
		1 x 4730 Controller, with 25 x 900GB 10K rpm SFF SAS disks	
P-I EOL	B7E29A	HP StoreVirtual 4730FC 900GB SAS Storage	54.206,00
		1 x 4730 Controller, with 25 x 900GB 10K rpm SFF SAS disks	
StoreVirtual	l 4630 Blade	Sytem	
P-I EOL StoreVirtual		BL460 Gen8 base platform D2700 JBOD with 25 SFF 6G SAS SAS drives dual CPU - Intel Xeon Hex core 5500/ 5600 series at 2.0 GHz 64 GB RAM 2GB Flash backed write cache Support for RAID 5, 6, 10 On-board FlexFabric 10Gb 2-port 554FLB FlexibleLOM iLO4 Management - iLO Advanced Pack Smart Array Advanced Pack 2.01 HP StoreVirtual 4630 900GB SAS Storage 1 x 4630 Controller and 1 x D2700 JBOD with with 25 x 900GB 10K rpm SFF SAS disks VMWare integration software ont Analytics software, an adapter for vCenter Operations Manager from VMware, relates virtual	57.944,00
P-I	using StoreFi	d datastores to volumes from 3PAR StoreServ and StoreVirtual storage systems. Administrators ront Analytics are able to visualize and analyze data from their 3PAR StoreServ or StoreVirtal directly within vCenter Operations Manager. HP StoreFront Analytics for VMware vRealize Operations and StoreVirtual Software E-LTU	187,00
		The state of the s	107,00
StoreVirtual			
StoreVirtual 433		LUD Clara Vista and ACCO DACE OF D. 1/1	4 100 00
P-D EOL	B7E21A	HP StoreVirtual 4030 10G BASE-SFP+ Kit Use this kit to upgrade StoreVirtual 4330 to 10 GbE, and connect to a 10 GbE iSCSI network. It has 2 x 10GbE SFP+ ports per kit. One kit is required for each node in the StoreVirtual Cluster.	1.402,00
<u> </u>		ade Options and Spare parts	
P4000 G2 Option		NID ON A PROPERTY OF THE PROPE	101.55
P-I EOL	K2Q44A	HP StoreVirtual P4000 G2 Memory Upgrade Use this kit to upgrade StorageWorks P4000 G2 Storage Systems running Lefthand OS 11.5 or higher, whenever the CMC shows 90% or higher memory usage. Also required for upgrades to next releases of Lefthand OS.	121,00

StoreVirtual 4000 44/97



Software Defined Storage VSA 45/97

Description

REP

HP StoreVirtual VSA: scalable, clustered iSCSI SAN HP StoreOnce VSA: deduplication 2.0 for Backup and fast restores

The HP StoreVirtual VSA Clustered Storage series key features :

- Highly scalable, easy to use storage solution with superior HA and DR capabilities
 Consolidate storage for Windows, Linux and VMWare environments,
 Supplied as a VMWare, Hyper-V or KVM virtual machine

- Based on HP Lefthand OS
- Full independence of the underlying hardware: use your own choice of external arrays. JBODs. SSD. SAS, MDL SAS, SATA or even IOAccelerator cards!
 Software included support for
 Network RAID 10,5 or 6 (RAID 10= Synchronous Replication) with online RAID level
- migration

 - Snapsriots, Voilnie Coines etc.
 Remote Copy: Asynchronous Replication with Bandwidth Throttling
 Multi-Site HA/DR Synchronous Replication
 Peer Motion for data tiering, non-disruptive upgrades, data migration, etc
 - Online Software Upgrades
- Self-Healing Storage
 Self-Self in Storage
 Storage VSA's required: minimum of 2 per SAN, a cluster of 3 Storage systems provides triple
- redundancy, maximum 16 nodes per cluster, 32 per management group.

 Network RAID Levels (per volume)

 RAID 10; 10+1; 10+2 protect against double disk, system, and site failures
- Network RAID 5 : protects against single disk or single controller outages
 Network RAID 6 : protects against single disk or double controller outages
 Hardware RAID Levels : whatever the underlying storage system supports.

wavzuto : Lemnano US 12.0

- Hewlett-Packard Enterprise branding has been made to the software and documentation.

 HPE StoreVirtual VSA KVM for Red Hat Enterprise Linux 6.7, 7.0, CentOS 6.7, 7.0, and Ubuntu 14.04.
- The Network Diagnostics utility, which provides ping, traceroute, and IPERF functions to collect diagnostics, was added.
- diagnostics, was added.

 The createSnapshotSet and rollBackVolume action object models were added to the REST API. The createManagementGroup API was also added.

 If an upgrade fails, you can now restart the upgrade without assistance from Hewlett Packard Enterprise Support. The upgrade partition is automatically unmounted if the storage system is unreachable. If there is an unrecoverable error, a message displays instructing you to restart
- each affected storage system.

 The jumbo frame option has been re-enabled for StoreVirtual VSAs.
- If a volume gets into the Unrecoverable IO state, support personnel now have the ability to clear this volume state by overwriting the affected pages or blocks with zeros. This may help in certain
- data recovery scenarios.

 A new event has been added to the CMC to track retransmit rates over network ports. If the retransmit rate exceeds 0.5%, an event is generated. Increased retransmit rates can affect
- network performance. Continuous code improvements
 Octobre 2015 : Lefthand OS 12.5

- · 2-node Quorum, ideal for ROBO organisations
- Split Network configurations, both Physical (NICs) as logical (VLANs)
 KVM support for Red Hat, CentOS and OpenStack linux
 OpenSSL vulnerabilities patched

HP StoreVirtual VSA series nodes

Software Defined Storage VSA 46/97

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 Split Network configurations, both Physical (NICs) as logical (VLANs)
 KVM support for Red Hat, CentOS and OpenStack linux
- OpenSSL vulnerabilities patched
- The HP StoreVirtual virtual SAN appliance comes in three flavors :
 a 4TB entry level version : limited to three nodes; No Adaptive Optimization supported
- a 10TB version
- The 10TB & 50TB versions can be clustered with up to 16 nodes.
- All nodes come with the Lefthand OS with all its features included. In order to create an active/active configuration, two identical nodes must be selected.
- ALL VSA licenses come with a full 3 or 5 year software support. Two license types are available: time limited (3 or 5 years, all versions) or perpetual (only for 10 TB a 50 TB versions)

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TC485A	HPE SV VSA 2014 4TB 3pk 3yr Stock LTU	2.804,00
D4U02A	HPE SV VSA 2014 4TB 3pk 5yr Stock LTU	4.673,00
	Includes copy of Lefthand OS media and documentation. This is the LTU as stocked	
	This is a 3-node package, supporting Up to 4TB capacity per node. No auto-tiering supported.	
Q0J77A	HPE SV VSA 2014 10TB LTU	5.604,00
	Not stockable by the channel, must order as drop ship and have single end-user	
	quantities represented on the order	
	• Includes 3 years of software support for each license	
TC487A	HPE SV VSA 2014 10TB 3yr Stock LTU	3.271,00
D4U04A	HPE SV VSA 2014 10TB 5yr Stock LTU	5.453,00
	Includes copy of Lefthand OS media and documentation. This is the LTU as stocked	
	by distri.	
00.1704		
Q0J78A		9.614,00
	*	5.607,00
D4U08A	•	9.346,00
	This is a single node, supporting Up to 50TB capacity. Minimum 2 nodes are required to create a cluster. Supports auto-tiering	
	TC485A D4U02A Q0J77A TC487A	D4U02A HPE SV VSA 2014 4TB 3pk 5yr Stock LTU Includes copy of Lefthand OS media and documentation. This is the LTU as stocked by distri. This is a 3-node package, supporting Up to 4TB capacity per node. No auto-tiering supported. Q0J77A HPE SV VSA 2014 10TB LTU • Not stockable by the channel, must order as drop ship and have single end-user quantities represented on the order • Installation media and documentation downloadable from hpe.com/storage/downloads/storevirtual • Includes 3 years of software support for each license TC487A HPE SV VSA 2014 10TB 3yr Stock LTU D4U04A HPE SV VSA 2014 10TB 5yr Stock LTU Includes copy of Lefthand OS media and documentation. This is the LTU as stocked by distri. This is a single node, supporting Up to 10TB capacity. Minimum 2 nodes are required to create a cluster. Supports auto-tiering Q0J78A HPE SV VSA 2014 50TB LTU • Not stockable by the channel, must order as drop ship and have single end-user quantities represented on the order • Installation media and documentation downloadable from hpe.com/storage/downloads/storevirtual • Includes 3 years of software support for each license TC500A HPE SV VSA 2014 50TB 3yr Stock LTU D4U08A HPE SV VSA 2014 50TB 5yr Stock LTU Includes copy of Lefthand OS media and documentation. This is the LTU as stocked by distri. This is a single node, supporting Up to 50TB capacity. Minimum 2 nodes are required

Software Defined Storage VSA 47/97

REP Description

HP StoreVirtual VSA: scalable, clustered iSCSI SAN HP StoreOnce VSA: deduplication 2.0 for Backup and fast restores

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 Consolidate storage for Windows, Linux and VMWare environments,
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- Based on HP Lefthand OS
- Full independence of the underlying hardware: use your own choice of external arrays. JBODs. SSD. SAS, MDL SAS, SATA or even IOAccelerator cards!
 Software included support for
 Network RAID 10,5 or 6 (RAID 10= Synchronous Replication) with online RAID level
- migration

 - Snapsriots, Voilnie Coines etc.
 Remote Copy: Asynchronous Replication with Bandwidth Throttling
 Multi-Site HA/DR Synchronous Replication
 Peer Motion for data tiering, non-disruptive upgrades, data migration, etc
 - Online Software Upgrades
- Self-Healing Storage
 Self-Self in Storage
 Storage VSA's required: minimum of 2 per SAN, a cluster of 3 Storage systems provides triple

- redundancy, maximum 16 nodes per cluster, 32 per management group.

 Network RAID Levels (per volume)

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wavzuto : Lemnano US 12.0

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 Octobre 2015 : Lefthand OS 12.5

- 2-node Quorum, ideal for ROBO organisations
- Split Network configurations, both Physical (NICs) as logical (VLANs)
 KVM support for Red Hat, CentOS and OpenStack linux
- OpenSSL vulnerabilities patched

P StoreVi	rtual VSA	2014 upgrades	
P-I	TC504A	HPE SV VSA 2014 Upg 4-10TB 3yr Stock LTU	2.571,
P-I	D4U12A	HPE SV VSA 2014 Upg 4-10TB 5yr Stock LTU	4.285,
P-I	TC506A	HPE SV VSA 2014 Upg 4-50TB 3yr Stock LTU	5.140,
P-I	D4U14A	HPE SV VSA 2014 Upg 4-50TB 5yr Stock LTU	8.565,
P-I	TC508A	HPE SV VSA 2014 Upg 10-50TB 3yr Stck LTU	2.571,
P-I	D4U16A	HPE SV VSA 2014 Upg 10-50TB 5yr Stck LTU	4.285,
StoreVi	rtual add	itional VMWare integration software	
	virtual mach Administrato	reFront Analytics software, an adapter for vCenter Operations Manager from VMware, relates ines and datastores to volumes from HP 3PAR StoreServ and StoreVirtual storage systems. ors using HP StoreFront Analytics are able to visualize and analyze data from their HP 3PAR r StoreVirtal storage array directly within vCenter Operations Manager.	
P-I		HP StoreFront Analytics for VMware vRealize Operations and StoreVirtual Software E-LTU	

Software Defined Storage VSA 48/97

Description

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- ong, initiz sing, and in even induces add selection and selection included support for

 Network RAID 10,5 or 6 (RAID 10= Synchronous Replication) with online RAID level migration
 - Snapshots, Volume Clones etc
 - Remote Copy : Asynchronous Replication with Bandwidth Throttling

 - Multi-Site HA/DR Synchronous Replication
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 Octobre 2015 : Lefthand OS 12.5

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- Split Network configurations, both Physical (NICs) as logical (VLANs)
 KVM support for Red Hat, CentOS and OpenStack linux
 OpenSSL vulnerabilities patched

HP StoreOnce Series

Does data growth leave you struggling with complex, distributed, and costly data protection? Keep pace with HP StoreOnce Backup systems, disk-based data protection with StoreOnce deduplication.

HP StoreOnce Backup systems reduce the amount of backup data you need to store by up to 95%, so with our scale-out architecture you can pay-as-you-grow to retain up to 10 petabytes of data in a single pool. They provide automated backup and DR operations with all the features you'd expect from dedicated disk backup, and some you can only get from HP.

HP StoreOnce Catalyst delivers industry-leading backup speeds of up to 100 TB/hour to meet shrinking backup windows, plus Federated Deduplication across the enterprise so you can dedupe data anywhere to suit your configuration. Based on HP's single deduplication technology, StoreOnce, managing the movement of data between remote offices and enterprise data centers has never been easier

Seamlessly integrating with your current backup applications, StoreOnce Backup systems provide flexible integration for both SAN and virtualized environments. With the HP StoreOnce 6500, Autonomic restart means a more resilient solution at a price/performance point that is up to 75% better than the leading competitor.

Actual performance is dependent upon configuration data set type, compression levels, number of data streams, number of devices emulated and number of concurrent tasks, such as housekeeping or replication.

Software Defined Storage VSA 49/97

Description

REP

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 Software included support for
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 Octobre 2015 : Lefthand OS 12.5

- 2-node Quorum, ideal for ROBO organisations
 Split Network configurations, both Physical (NICs) as logical (VLANs)
 KVM support for Red Hat, CentOS and OpenStack linux
- · OpenSSL vulnerabilities patched

New for March 2017

StoreOnce VSA 32TB license and licenses to scale up capacity from 20TB to 32TB and 32TB to 50TB Mixed couplet support within the StoreOnce 6600, customers can now add a 6600 couplet to an existing StoreOnce 6500 appliance

StoreOnce 5500 and 6600, now with 3 year warranty

- Catalyst Copy over Fibre Channel.
 Expands upon the current Catalyst release to utilize Fibre Channel as a protocol to transmit copies in addition to backup.
- For customers that may not want to expand their Ethernet capacity or have Fibre Channel only environments that want to utilize, or have utilized Catalyst, and the ability to copy completes their backup

Support for IVMR (Instantaneous Virtual Machine Recovery) and other vPower NFS features in Veeam Backup and Replication in conjunction with backup to Catalyst

Reporting Central improvements, including email notifications, threshold alerts, and increased granularity

in graphical reporting and customized history data retention.
\Lendarced StoreOnce Remote Support enablement for StoreOnce systems

Remote data collection enablement for StoreOnce VSA

50/97 Software Defined Storage VSA

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 Octobre 2015 : Lefthand OS 12.5

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 Split Network configurations, both Physical (NICs) as logical (VLANs)
 KVM support for Red Hat, CentOS and OpenStack linux
 OpenSSL vulnerabilities patched

HP Store	Once VSA		
For electron	ic versions, ju	ist add the letters 'AE' to the end of the part number.	
P-I	P9L02A	HPE StoreOnce VSA 4TB LTU	2.617,00
P-I	P9L03A	HPE StoreOnce VSA 10TB LTU	6.542,00
P-I	P9L04A	HPE StoreOnce VSA 20TB LTU	13.084,00
N	Q0Q47A	HPE StoreOnce VSA 32TB LTU	20.935,00
P-I	P9L05A	HPE StoreOnce VSA 50TB LTU	32.710,00
HP Store	Once VSA	upgrades	
For electron	ic versions, ju	ist add the letters 'AE' to the end of the part number.	
P-I	P9L06A	HPE StoreOnce VSA Upg 4-10TB LTU	3.925,00
P-I	P9L07A	HPE StoreOnce VSA Upg 10-20TB LTU	6.542,00
N	Q0Q48A	HPE StoreOnce VSA Upg 20-32TB LTU	7.850,00
N	Q0Q49A	HPE StoreOnce VSA Upg 32-50TB LTU	10.467,00
P-I	P9L08A	HPE StoreOnce VSA Upg 20-50TB LTU	19.626,00

Software Defined Storage VSA 51/97



REP (in €)

The MSA1040 and 204x are the 4th generation of the successful MSA product family. The MSA204x brings a whole performance level to the entry level SAN array world, while the MSA1040 takes over the budget friendly crown from its predecessor the P2000 G3 MSA.

The MSAx040 is a 2U storage area network (SAN) solution designed for small to medium size deployments or remote locations. The MSAx040 also remains loyal to the MSA family legacy and still offers flexible configuration capabilities. with the MSA2040 you start out with a base chassis, and add controllers depending on the usage model of the customer. eg. you can create a basic single controller model for low initial cost with the ability to upgrade later; the MSA1040 always comes with the two controllers integrated into the base chassis. Both models offer new enhanced controllers, optimized for high speed.

Main functionality for MSA204x (optional on MSA1040):

- Wide striping, all volumes make use of all the disks in a virtual pool
- volume size, now max. 128TiB up from 64TiB
- More hosts supported : up to 512 hosts
- Thin provisioning with soft & hard thresholds, overprovisioning alerting, thin space reclamation (T10-Unmap)
- New improved snapshot engine with redirect on write, multi-level snapshots (up to 3x performance improvement on snapshots)
- up to 3 level tiering (SSD->SAS->MDLSAS). Performance tier (with SSD) is optional
- SSD Read cache

And a seculinal board new medicus messacus OIII declared with the west in min

NEW , June 2016: firmware GL220P008 adds :

- MSA1040 support for SSD drives ! *
 Volume Copy for virtualized pools
- Snapshot management GUI with scheduler
- Remote Copy for virtualised pools
- Volume Tier Affinity: 'QOS' for volumes, indicate a preferred tier for a given volume.
- Large Pool capacity support, up to 1PiB per virtual pool!

NEW, August 2016:

- MSA2042, the fastest member of the MSA family. With standard 2 x 400GB SSD read cache; includes licenses for : Performance tiering, Remote Copy and maximum snapshots.
- Support for LFF SSD drives on all models (400/800GB)

NEW, September 2016:

- A new release of the MSA2042, this time using the 400GB Enterprise Mainstream SSD drives. These SKU's have been created to cope for the industry wide shortage of NAND chips (used in all the Mixed use drives). No other changes of the functionality of the MSA2042.
- $\hbox{\it -} \textit{Additional LFF SSD drives, based on Enterprise Mainstream SSDs.}$
- Larger MDL SAS drives: 10TB ...allowing the MSA204x to grow up to 960TB of raw storage!!

MSA 2042	base configu	rations	
	always with 2 cont		
		Kit contents : MSA2042 Energy Star Base Unit with dual MSA2040 Converged SAN	
		controllers + 2 x 400GB Mixed Use SSD, Advanced Data Services suite (No SFP's, no	
		cables, no switches, no HBA)	
P-I	Q0F05A	HPE MSA 2042 SAN DC LFF Storage	9.157,00
P-I	Q0F06A	HPE MSA 2042 SAN DC SFF Storage	9.157,00
		Kit contents: MSA2042 Energy Star Base Unit with dual MSA2040 SAS controllers + 2 x	
		400GB Mixed Use SSD, Advanced Data Services suite (No SFP's, no cables, no switches,	
		no HBA)	
P-I	Q0F07A	HPE MSA 2042 SAS DC LFF Storage	9.081,00
P-I	Q0F08A	HPE MSA 2042 SAS DC SFF Storage	9.081,00
		Kit contents: MSA2042 Energy Star Base Unit with dual MSA2040 Converged SAN	
		controllers + 2 x 400GB Enterprise Mainstream SSD, Advanced Data Services suite (No	
		SFP's, no cables, no switches, no HBA)	
P-I	Q0F72A	HPE MSA 2042 SAN DC ME SFF Stor	10.545,00
P-I	Q0F74A	HPE MSA 2042 SAN DC ME LFF Storage	10.545,00
		Kit contents: MSA2042 Energy Star Base Unit with dual MSA2040 SAS controllers + 2 x	
		400GB Enterprise Mainstream SSD, Advanced Data Services suite (No SFP's, no cables,	
		no switches, no HBA)	
P-I	Q0F73A	HPE MSA 2042 SAS DC ME SFF Storage	10.457,00
P-I	Q0F75A	HPE MSA 2042 SAS DC ME LFF Storage	10.457,00
MSA 2040) base configu	rations	
Base Units	always with 2 cont	trollers	
		Kit contents: MSA2040 Energy Star Base Unit with dual MSA2040 Converged SAN	
		controllers (no switch, no HBA's, no cables, no SFP's !)	
P-I	K2R79A	HPE MSA 2040 ES SAN DC LFF Storage	7.882,00
P-I	K2R80A	HPE MSA 2040 ES SAN DC SFF Storage	8.178,00
		Kit contents: MSA2040 energy Star Base Unit with dual MSA2040 SAS controllers (no	
		HBA's, no cables)	

MSA Storage 52/97



	PN	Description	REP
		·	(in €)
P-I	K2R83A	HPE MSA 2040 ES SAS DC LFF Storage	7.808,00
P-I	K2R84A	HPE MSA 2040 ES SAS DC SFF Storage	8.104,00
MSA 1040) base configurat	tions	
Base units, a	lways come with 2 con	itrollers	
P-I	K2Q90A	HPE MSA 1040 2Prt SAS DC LFF Strg	5.172,00
P-I	E7W03A	HPE MSA 1040 2Prt 10G iSCSI DC LFF Strg	6.095,00
P-I	E7W01A	HPE MSA 1040 2Prt 1G iSCSI DC LFF Strg	4.618,00
P-I	E7V99A	HPE MSA 1040 2Prt FC DC LFF Strg	5.356,00
P-I	K2Q89A	HPE MSA 1040 2Prt SAS DC SFF Strg	5.356,00
P-I	E7W04A	HPE MSA 1040 2Prt 10G iSCSI DC SFF Strg	6.279,00
P-I	E7W02A	HPE MSA 1040 2Prt 1G iSCSI DC SFF Strg	4.802,00
P-I	E7W00A	HPE MSA 1040 2Prt FC DC SFF Strg	5.541,00
MSA2040	a la carte		
Step 1 : selec	t your base disk shelf		
P-I	K2R82A	HPE MSA 2040 ES LFF Chassis	2.031,00
		Kit contents: MSA2040 Base JBOD, without controllers. Supports up to 12x 3.5" LFF	•
		P2000/MSA2040 Hard disks. Supports the addition of up to 7 extra MSA2040 LFF JBOD	
P-I	K2R81A	HPE MSA 2040 ES SFF Chassis	2.327,00
		Kit contents: MSA2040 Base JBOD, without controllers. Supports up to 24x 2.5" SFF	
		MSA2040 Hard disks or SSD's. Supports the addition of up to 7 extra D2700 SFF JBODs	
Step 2a : add	1 or 2 MSA2040 Contr	ollers	
	Watch out : yo	ou can not mix two different controllers in the same base chassis.	
P-I	C8R09A	HPE MSA 2040 SAN Controller	2.926,00
P-I	C8S53A	HPE MSA 2040 SAS Controller	2.881,00
Step 2b : If yo Mixing is pos		40 Converged Storage controller above, please select the necessary SFP kits. 1 kit required	per controller.
P-I	C8S75A	HPE MSA 2040 1Gb SW iSCSI SFP 4 Pk	434,00
P-I	C8R25A	HPE MSA 2040 10Gb SW iSCSI SFP 4 Pk	1.302,00
P-I	C8R23A	HPE MSA 2040 8Gb SW FC SFP 4 Pk	347.00
		THE WOA 2040 OOD SWITC SIT 4 I K	347,00
P-I	C8R24A	HPE MSA 2040 16Gb SW FC SFP 4 Pk	1.389,00
	C8R24A	HPE MSA 2040 16Gb SW FC SFP 4 Pk	- ,
		HPE MSA 2040 16Gb SW FC SFP 4 Pk	1.389,00
Step 2C : Add	d optional capabilities	HPE MSA 2040 16Gb SW FC SFP 4 Pk to your array.	1.389,00
Step 2C : Add	D4T78A D4T78AE	HPE MSA 2040 16Gb SW FC SFP 4 Pk to your array. HPE MSA 1040 Adv Virtualized Upg LTU HPE MSA 1040 Adv Virtualized Upg E-LTU	1.389,00
Step 2C : Add	D4T78A D4T78AAE New: Advanced of	HPE MSA 2040 16Gb SW FC SFP 4 Pk to your array. HPE MSA 1040 Adv Virtualized Upg LTU	1.389,00
Step 2C : Add	D4T78A D4T78AAE New: Advanced of single license at a	HPE MSA 2040 16Gb SW FC SFP 4 Pk to your array. HPE MSA 1040 Adv Virtualized Upg LTU HPE MSA 1040 Adv Virtualized Upg E-LTU data services license: bundles: performance tiering+Snapshot 512+Remote Snap in a a much better price!	1.389,00 292,00 292,00
Step 2C : Add	D4T78A D4T78AAE New: Advanced of single license at a	HPE MSA 2040 16Gb SW FC SFP 4 Pk to your array. HPE MSA 1040 Adv Virtualized Upg LTU HPE MSA 1040 Adv Virtualized Upg E-LTU data services license: bundles: performance tiering+Snapshot 512+Remote Snap in a a much better price! HPE MSA Advanced Data Services LTU	1.389,00 292,00 292,00 2.869,00
Step 2C : Add P-I P-I P-I P-I	D4T78A D4T78AAE New: Advanced of single license at a Q0H99A Q0H99AAE	HPE MSA 2040 16Gb SW FC SFP 4 Pk to your array. HPE MSA 1040 Adv Virtualized Upg LTU HPE MSA 1040 Adv Virtualized Upg E-LTU data services license: bundles: performance tiering+Snapshot 512+Remote Snap in a a much better price! HPE MSA Advanced Data Services LTU HPE MSA Advanced Data Services E-LTU	1.389,00 292,00 292,00 2.869,00 2.869,00
P-I P-I P-I P-I P-I	D4T78A D4T78AAE New: Advanced of single license at a Q0H99A Q0H99AAE D4T79A	HPE MSA 2040 16Gb SW FC SFP 4 Pk to your array. HPE MSA 1040 Adv Virtualized Upg LTU HPE MSA 1040 Adv Virtualized Upg E-LTU data services license: bundles: performance tiering+Snapshot 512+Remote Snap in a a much better price! HPE MSA Advanced Data Services LTU HPE MSA Advanced Data Services E-LTU HPE MSA 2040 Perf Auto Tiering LTU	292,00 292,00 292,00 2.869,00 2.869,00 3.332,00
P-I P-I P-I P-I P-I P-I P-I P-I	D4T78A D4T78AAE New: Advanced of single license at a Q0H99A Q0H99AAE D4T79A D4T79AAE	HPE MSA 2040 16Gb SW FC SFP 4 Pk to your array. HPE MSA 1040 Adv Virtualized Upg LTU HPE MSA 1040 Adv Virtualized Upg E-LTU data services license: bundles: performance tiering+Snapshot 512+Remote Snap in a a much better price! HPE MSA Advanced Data Services LTU HPE MSA Advanced Data Services E-LTU HPE MSA 2040 Perf Auto Tiering LTU HPE MSA 2040 Perf Auto Tiering E-LTU	292,00 292,00 292,00 2.869,00 2.869,00 3.332,00 3.332,00
P-I	D4T78A D4T78AAE New: Advanced of single license at a Q0H99A Q0H99AAE D4T79A D4T79A D4T79AAE TC462A	HPE MSA 2040 16Gb SW FC SFP 4 Pk to your array. HPE MSA 1040 Adv Virtualized Upg LTU HPE MSA 1040 Adv Virtualized Upg E-LTU data services license: bundles: performance tiering+Snapshot 512+Remote Snap in a a much better price! HPE MSA Advanced Data Services LTU HPE MSA Advanced Data Services E-LTU HPE MSA 2040 Perf Auto Tiering LTU HPE MSA 2040 Perf Auto Tiering E-LTU HP MSA 512-Snapshot Software LTU	292,00 292,00 292,00 2.869,00 2.869,00 3.332,00 3.332,00 3.332,00
P-I P-I P-I P-I P-I P-I P-I P-I	D4T78A D4T78AAE New: Advanced of single license at a Q0H99A Q0H99AAE D4T79A D4T79AAE	HPE MSA 2040 16Gb SW FC SFP 4 Pk to your array. HPE MSA 1040 Adv Virtualized Upg LTU HPE MSA 1040 Adv Virtualized Upg E-LTU data services license: bundles: performance tiering+Snapshot 512+Remote Snap in a a much better price! HPE MSA Advanced Data Services LTU HPE MSA Advanced Data Services E-LTU HPE MSA 2040 Perf Auto Tiering LTU HPE MSA 2040 Perf Auto Tiering E-LTU	1.389,00 292,00 292,00

MSA Storage 53/97



	PN	Description	REP (in €)
MSA x040 e	expansion options	5	
JBODs			
P-I	M0S96A	HPE MSA 2040 ES LFF Disk Enclosure	2.917,00
		Kit contents: MSAx040 Base JBOD, without controllers. Supports up to 12x 3.5" LFF P2000/MSAx040 Hard disks. Max. 7 extra JBODs behind the MSA2040 controllers, Max 3 JBODs behind MSA1040 controllers.	
		NEW : can also be used to expand P2000 G3 systems!	
P-I	AJ941A	HPE D2700 Disk Enclosure	2.832,00
		Kit contents: D2700Base Unit with redundant power supplies, redundant fans and dual domain I/O. No SAS cable! Watch out: when connecting the D2700, disk drives need to be specific for MSAx040, do not use ProLiant Disk drives! - max. 7 JBODs behind MSA2040 controllers, Max. 3 JBODs behind MSA1040 controllers.	
SAS cable			
		A2040 or D2700 JBOD if a longer cable is desired.	
P-I	407337-B21	HP External Mini SAS 1m Cable ALL	69,00
P-I	407339-B21	HP External Mini SAS 2m Cable	97,00
	· · · · ·	_ ; 10K & 15K SAS ; SSD ; SSD drives are supported on MSA1040 with FW GL220R005 o	r higher
		k drives in a 3.5" convertor	4 704 00
P-I	P9M79A	HPE MSA 400GB 12G SAS MU LFF CC SSD	1.731,00
P-I	P9M80A	HPE MSA 800GB 12G SAS MU LFF CC SSD	3.291,00
P-I P-I	Q0F76A	HPE MSA 400GB 12G SAS ME LFF CC SSD	2.418,00
	Q0F77A	HPE MSA 800GB 12G SAS ME LFF CC SSD 2.5" disk drives in a 3.5" convertor	4.681,00
7.5 LFF 12G 15	J9V68A	HPE MSA 300GB 12G SAS 15K 3.5in CC HDD	411,00
P-I	J9V69A	HPE MSA 450GB 12G SAS 15K 3.5in CC HDD	591,00
P-I	J9V70A	HPE MSA 600GB 12G SAS 15K 3.5in CC HDD	598,00
3.5" LFF 12G 7,2 These are 512n	2K rpm MDL SAS disk d	rives.	
P-I	N9X93A	HPE MSA 2TB 12G SAS 7.2K 3.5in 512n HDD	539,00
P-I EOL	N9X94A	HPE MSA 4TB 12G SAS 7.2K 3.5in 512n HDD	790,00
	2K rpm MDL SAS disk d	200P002 or higher on MSA1040/2040.	
P-I	P9M82A	HPE MSA 10TB 12G SAS 7.2K LFF 512e HDD	1.699,00
P-I	M0S90A	HPE MSA 8TB 12G SAS 7.2K 3.5in 512e HDD	1.182,00
P-I	J9F43A	HPE MSA 6TB 12G SAS 7.2K 3.5in MDL HDD	930,00
P-I	K2Q82A	HPE MSA 4TB 12G SAS 7.2K 3.5in MDL HDD	710,00
2.5" SFF SSD 12	2G SAS drives. Write Int	ensive SD drives	
P-I	J9F37A	HP MSA 400GB 12G SAS ME 2.5in EM SSD	2.204,00
P-I	J9F38A	HP MSA 800GB 12G SAS ME 2.5in EM SSD	4.124,00
P-I	J9F39A	HP MSA 1.6TB 12G SAS ME 2.5in EM SSD	6.995,00
2.5" SFF SSD 12		LIDE MOA 400CB 42C CAC MILD 5% CCD	4 704 00
P-I P-I	N9X95A N9X96A	HPE MSA 400GB 12G SAS MU 2.5in SSD HPE MSA 800GB 12G SAS MU 2.5in SSD	1.731,00 3.291,00
P-I	N9X91A	HPE MSA 1.6TB 12G SAS MU 2.5in SSD	6.225,00
P-I	N9X92A	HPE MSA 3.2TB 12G SAS MU 2.5in SSD	10.843,00
2.5" SFF SSD 12	2G SAS drives.		
P-I 2.5" SFF 12G 15	K2Q45A K rpm SAS disk drives.	MSA 200GB 12G ME SAS 2.5in Ent SSD	1.427,00
P-I	J9F40A	HPE MSA 300GB 12G SAS 15K 2.5in ENT HDD	411,00
P-I	J9F41A	HPE MSA 450GB 12G SAS 15K 2.5in ENT HDD	591,00
P-I	J9F42A	HPE MSA 600GB 12G SAS 15K 2.5in ENT HDD	598,00
		Watch out : only the list below is supported !	
P-I P-I	J9F49A J9F48A	HPE MSA 1.8TB 12G SAS 10K 2.5in 512e HDD HPE MSA 1.2TB 12G SAS 10K 2.5in ENT HDD	959,00 657,00
P-I	J9F48A J9F47A	HPE MSA 9.00GB 12G SAS 10K 2.5in ENT HDD	531,00
P-I	J9F46A	HPE MSA 600GB 12G SAS 10K 2.5in ENT HDD	411,00
P-I	J9F44A	HPE MSA 300GB 12G SAS 10K 2.5in ENT HDD	258,00
2.5" SFF 12G 7,2		rives. Watch out : only the list below is supported !	
P-I	J9F50A	HPE MSA 1TB 12G SAS 7.2K 2.5in 512e HDD	445,00
P-I	J9F51A	HPE MSA 2TB 12G SAS 7.2K 2.5in 512e HDD	807,00
	Self Encrypting Drives P9M81A	•	700.00
P-I	L AINIO I W	HPE MSA 1.2TB 12G SAS 10K SFF ENT SED	708,00

MSA Storage 54/97



HPE MiniSAS HD to MiniS HPE MiniSAS HD to MiniS HPE MiniSAS HD to MiniS Gen9 SAS HBA's	Cable Cable BA's, or P2000 G3 to Gen9 SAS HBA's BAS FO 1M Cbl BAS FO 2M Cbl	97,0 123,0
HP External Mini SAS 2m HP External Mini SAS 4m G6/G7 and Gen8 SAS HE HPE MiniSAS HD to MiniS Gen9 SAS HBA's	Cable Cable BA's, or P2000 G3 to Gen9 SAS HBA's BAS FO 1M Cbl BAS FO 2M Cbl	123,0
HP External Mini SAS 2m HP External Mini SAS 4m G6/G7 and Gen8 SAS HE HPE MiniSAS HD to MiniS Gen9 SAS HBA's	Cable Cable BA's, or P2000 G3 to Gen9 SAS HBA's BAS FO 1M Cbl BAS FO 2M Cbl	123,0
HP External Mini SAS 4m G6/G7 and Gen8 SAS HE HPE MiniSAS HD to MiniS HPE MiniSAS HD to MiniS HPE MiniSAS HD to MiniS Gen9 SAS HBA's	Cable BA's, or P2000 G3 to Gen9 SAS HBA's BAS FO 1M Cbl BAS FO 2M Cbl	123,0
G6/G7 and Gen8 SAS HE HPE MiniSAS HD to MiniS Gen9 SAS HBA's	BA's, or P2000 G3 to Gen9 SAS HBA's BAS FO 1M Cbl BAS FO 2M Cbl	,
HPE MiniSAS HD to MiniS HPE MiniSAS HD to MiniS HPE MiniSAS HD to MiniS Gen9 SAS HBA's	SAS FO 1M Cbl SAS FO 2M Cbl	226.0
HPE MiniSAS HD to MiniS HPE MiniSAS HD to MiniS Gen9 SAS HBA's	SAS FO 2M Cbl	226.0
HPE MiniSAS HD to MiniS Gen9 SAS HBA's		220,0
Gen9 SAS HBA's	CAS FO 4M Chi	291,0
	SAS FO 4IVI CDI	451,0
HPF MiniSAS HD to MiniS		
	SAS HD FO 1M Cbl	226,0
HPE MiniSAS HD to MiniS	SAS HD FO 2M Cbl	291,0
HPE Mini SAS HD to Mini	SAS HD FO 4M Cbl	451,0
er to G6/G7 and Gen8 S	AS HBA's, or P2000 G3 to Gen9 SAS HBA's	,
HP 1.0m External Mini SA	S High Density to Mini SAS Cable	65,0
HP 2.0m External Mini SA	S High Density to Mini SAS Cable	90,0
HP 4.0m External Mini SA	S High Density to Mini SAS Cable	140,0
er to Gen9 SAS HBA's		
HP External 1.0m (3ft) Mir	ni-SAS HD 4x to Mini-SAS HD 4x Cable	100,0
()	ni-SAS HD 4x to Mini-SAS HD 4x Cable	130,0
HP External 4.0m (13ft) M	lini-SAS HD 4x to Mini-SAS HD 4x Cable	190,0
HP H241 12Gb 2-ports Ex	kt Smart Host Bus Adapter	270,0
·		
HP Smart Array P431/2GI	B FBWC 12Gb 2-ports Ext SAS Controller	940.0
	•	260.0
	G Controller	1.200,0
in Gilait Allay i 74111/2	O CONTROLLO	1.200,0
HPE 6Gb SAS BL Switch	Dual Pack	4.578,0
20	204x/1040 only HP Smart Array P741m/2 HPE 6Gb SAS BL Switch etworking catalogue	HP H221 PCle 3.0 SAS Host Bus Adapter 204x/1040 only HP Smart Array P741m/2G Controller HPE 6Gb SAS BL Switch Dual Pack etworking catalogue with Carepacks: please consult the Carepack central web

MSA Storage 55/97



PN	Description	REP
	Boodilphon	(in €)

The StoreEasy products are part of the Converged Storage Initiative

- 1. Based on x86 architecture: market leading ProLiant servers!
- 2. Scale Out software: up to 64 nodes can be clustered!
- 3. Converged Management of both File and block level services through the Windows Server Manager!

Do not forget all the other benefits of windows storage server standard 2012!

- 1. Easy to buy & install: unpack, connect cables, power up, create users
- 2. Advanced features pre-installed , no hidden costs :
 - Multi-protocol : iSCSI for Block storage, HTTP & FTP, SMB 3.0 and NFS 4.1
 - Snapshots, Cloning, Advanced User quota management, storage reporting, file sweeping, etc
 - file Classification Infrastructure for active archiving, data
- 3. Additional built-in features include:
 - Printer services, FAX services, DHCP
 - iSCSI and SMB 3.0 application data storage out of the box
 - Block Level deduplication
- Thin provisioning aware; ODX support with StoreServe arrays DFS-R Replication built-in! DFS-N: single name space!
- New StoreEasy with Windows Storage Server 2016 !!! Only available for base units.

StoreEasy 56/97



	PN	Description	REP (in €)		
StoreEasy 1000 series - Ordering Guidelines					

StoreEasy 1450

Common specifications :

One (1) Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor standard; second processor optional

8GB (1 x 8GB DDR4-2133 DIMM); Ethernet 1Gb 2-port i350 Adapter with optional FlexibleLOM on riser

Smart Array P440/4GB FBWC 12Gb 1-port Internal SAS Controller 2 x PCle3 slots standard(one slot used by SA P440); optional third PCle3 slot (requires adding 2nd CPU and riser) ILo4 advanced

optional DVD-RW drive for OS quickrestore

1U Rackmount chassis

 $4\ x$ LFF Hot Plug drive bay; 120GB RAID 1 LUN spread accross the 4 disks for OS.

550 hot plug power supply, Optional Redundant Power supply

1 fan standard, optional; 2nd redundant fan

Warranty: 3-1-1: 3 year parts, 1 year on-site next business day response, 1 year labor

For options please consult the ProLiant (DL160 Gen9) pricelist; for carepacks please consult the Carepack pricelist

warning: a version exists with Windows Storage Servers 2016, but only for CTO. this can be configured using Salesbuilder for Windows. If you cannot do this, please consult your distributor.

Ready to use units				
P-I	K2R12A	HPE StoreEasy 1450 4TB SATA Strg	5.118,00	
P-I	K2R13A	HPE StoreEasy 1450 8TB SATA Strg	5.828,00	
P-I	K2R14A	HPE StoreEasy 1450 16TB SATA Strg	7.062,00	

StoreEasy 57/97



	PN	Description	REP (in €)
Ctoro Foot 4F	FO		

StoreEasy 1550

Common specifications:

Tower based chassis with up to 8 internal LFF hard drive bays (4 std) ntel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor 8GB RAM, 2 x Gigabit ports

SA-P440/4GB FBWC 1-pot internal SAS controller.

ILo4 advanced

DVD-RW drive for OS quickrestore

4 x Hot Plug drive bays std, upgrade to 8 available. standard 750W PSU, optional redundant(add 2nd PSU for redundancy)

Remark: in a 4-drive configuration, standard RAID level will always be RAID6. This is because of the very long rebuild times of large disks. For options please consult the ProLiant (options for ML110 Gen9) pricelist; for carepacks please consult the Carepack pricelist

warning: a version exists with Windows Storage Servers 2016, but only for CTO. this can be configured using Salesbuilder for Windows. If you cannot do this, please consult your distributor.

Ready to use units				
P-I	K2R63A	HPE StoreEasy 1550 4TB SATA Strg	4.582,00	
P-I	K2R64A	HPE StoreEasy 1550 8TB SATA Strg	5.293,00	
P-I	K2R65A	HPE StoreEasy 1550 16TB SATA Strg	6.526,00	
StoreEasy	/ 1650			

oy 1000

Ccommon specifications:

2U rack mount

WSS2012 R2 version : One (1) Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor standard; optional 2nd processor Windows 2016 version : One (1) Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor standard; optional 2nd processor 16GB (2 x 8GB)

Embedded 1Gb Ethernet 4-port 331i Adapter, plus optional Flexible LOM 3 x PCle3 slots standard; optional 3 x PCle3 slots (requires adding 2nd CPU and 3 slot PCle riser). Slot 2 of first PCle riser consumed by optional PCle riser

Flexible Smart Array P440ar/2GB FBWC

120GB RAID 1 LUN on 2 x 120GB 6G SATA Value Endurance SFF Boot SSDs in rear

12 x LFF hot-plug HDD slots in front, 2 x SFF hot-plug HDDs in rear; optional DVD-ROM or DVD-RW

2 x 800W power supply, redundant

6 High efficiency fans standard, redundant

iLO4

Warranty: 3-3-3: 3 year parts, 3 year on-site next business day response, 3 year labor

Base units, o	nly OS disks			
P-I	Q0F49A HPE StoreEasy 1650 WSS2016 Strg			
P-I	K2R15A	HPE StoreEasy 1650 Strg	6.311,00	
		These base units contain no data disks and are available for fully custom configurations.		
Ready to use	units			
P-I	K2R16A	HPE StoreEasy 1650 16TB SAS Strg	9.931,00	
P-I	K2R17A	HPE StoreEasy 1650 32TB SAS Strg	12.398,00	
P-I	K2R18A	HPE StoreEasy 1650 48TB SAS Strg	15.987,00	
P-I OBS	M0S97A	HPE StoreEasy 1650 90TB SATA Storage	24.204,00	

StoreEasy 58/97



	PN	Description	REP (in €)
04	4050 E 4		

StoreEasy 1650 Extended Capcity

Ccommon specifications :

2U rack mount

WSS 2012 R2 version : One (1) Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor standard; optional 2nd processor Windows 2016 version : One (1) Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor standard; optional 2nd processor 16GB (2 x 8GB DDR4-2133 DIMM)

Embedded 1Gb Ethernet 2-port Adapter, plus optional Flexible LOM 2 x PCle3 slots standard; 3 additional with 2nd CPU installed.

Flexible Smart Array P840ar/4GB FBWC

120GB RAID 1 LUN on 2 x 120GB 6G SATA Value Endurance SFF Boot SSDs in rear

12 x LFF hot-plug HDD slots in front, 12 x LFF hot-plug HDDs in middle, 4 x LFF hot-plug HDDs in rear; optional DVD-ROM or DVD-RW

2 x 800W power supply, redundant

9 High efficiency fans standard, redundant

iLO4

Warranty: 3-3-3: 3 year parts, 3 year on-site next business day response, 3 year labor

	<u> </u>	on places consult the Dral jont, principal (Apollo 1200 entions) for			
Base units, only OS disks					
P-I	Q0F50A	HPE StoreEasy 1650 Exp WSS2016 Strg	7.516,00		
		This base unit contains no data disks and is available for fully custom configurations.			
P-I	N9Y08A	HPE StoreEasy 1650 E Strg	7.516,00		
		This base unit contains no data disks and is available for fully custom configurations.			
Ready to us	se units				
P-I	N9Y09A	HPE StoreEasy 1650 E 32TB SAS Strg	13.603,00		
P-I	N9Y10A	HPE StoreEasy 1650 E 48TB SAS Strg	17.192,00		
P-I	N9Y11A	HPE StoreEasy 1650 E 64TB SAS Strg	19.804,00		

StoreEasy 59/97



FN	Description	(in €)
PN	Description	REP

StoreEasy 1850

Common specifications:

2U form factor

Windows 2012 R2 version: One (1) Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor standard; optional 2nd processor Windows 2016 version: One (1) Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor standard; optional 2nd processor 16GB RAM (2 x 8GB DDR4-2133 DIMM)

Embedded 1Gb Ethernet 4-port 331i Adapter, plus optional Flexible LOM 3 x PCle3 slots standard; optional 3 x PCle3 slots (requires adding 2nd CPU and 3 slot PCle riser). Slot 2 of first PCle riser consumed by optional PCle riser

Flexible Smart Array P440ar/2GB FBWC

120GB RAID 1 LUN on 2 x 120GB 6G SATA Value Endurance SFF Boot SSDs in rear

24 x SFF hot-plug HDD slots in front, 2 x SFF hot-plug HDDs in rear; optional DVD-ROM or DVD-RW

2 x 800W power supply, redundant

6 High efficiency fans standard, redundant

iLO4

Warranty: 3-3-3: 3 year parts, 3 year on-site next business day response, 3 year labor

Supports all options for ProLiant DL380 Gen9 , for carepacks, please consult the Carepack pricelist

Base units, only OS disks					
P-I	Q0F51A	HPE StoreEasy 1850 WSS2016 Strg	6.761,00		
P-I	K2R19A	HPE StoreEasy 1850 Strg	6.761,00		
Ready to use	Ready to use units				
P-I	K2R20A	HPE StoreEasy 1850 9.6TB SAS Strg	13.557,00		

StoreEasy 60/97



PN Description RI

StoreEasy 3000 series - Ordering Guidelines

StoreEasy 3000 Gateway Storage system

StoreEasy 3850 Gateway Storage is a new breed of optimized, efficient, secure, and highly available storage to address the file storage challenges of customers' medium to large business and branch office SAN environments. StoreEasy 3850 Gateway Storage, built on industry leading ProLiant DNA and Microsoft Windows Storage Server, integrates easily into new and existing SAN environments with a straightforward, consistent management experience for IT generalists or storage administrators.

The StoreEasy 3850 Gateway system consits of 2 parts: a base chassis containing a 24 disk JBOD (split in two halves, 12 drive bays for each node); redundant power supplies and fans; and room to accomodate up to 2 3850 Storeasy nodes. Order a base chassis first and then add 1 or 2 nodes depending on your requirements. For connection to an external Storage array, you can add Fibre channel HBA's; SAS HBA's or additional Ethernet Adapters.

P-I	K2R69A	HPE StoreEasy 3850 Gateway System	2.333,00
P-I	Q0F52A	HPE StoreEasy 3850 WSS2016 Gtwy Sng Node	4.729,00
P-I	K2R70A	HPE StoreEasy 3850 Gateway Sngl Node	4.729,00
		The 3850 node comes with: - Intel Xeon E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor - 32GB Ram (4 x 8GB) - 2 NIC ports (1Gb) - Dynamic Smart Array B140i (for the OS disks only) - 2 x 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot SSDs for O/S mirror	

StoreEasy 3850 Gateway Blade Storage

specifications:

Based on BL460 Gen9 Bladesystem server.

Intel® Xeon® E5-2609V3 (1.90GHz/6-core/15MB/85W) Processor 32GB RAM, Embedded Dual Port 1GbE Adapter, optional FlexLOM adapter

 $2 \times 120 \text{GB}$ 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot SSDs for O/S mirror iLO4 Advanced

Base units, only OS disks				
P-I	Q0F53A	HPE StoreEasy 3850 WSS2016 Gtwy Bld Strg	5.464,00	
P-I	K2R72A	HPE StoreEasy 3850 Gateway Blade Strg	5.464,00	

StoreEasy 61/97



options for StoreEasy series The options listed below are the specific options for these StoreEasy models options can be found in the quickspecs/ Servers pricelist for their base serve StoreEasy 1450: DL160 gen9; StoreEasy 1650/1850: DL380 gen9.	. •
options can be found in the quickspecs/ Servers pricelist for their base serve	. •
	r counterparts :
OS Upgrades	
Upgrade from WSS 2012 R2 to WSS 2016	
P-I Q0F57A HPE WSS2016 Std Ed Upgd Kit	654,0
CPU upgrades	
Processor upgrade for 1450	
P-I 763235-B21 Intel Xeon E5-2603v3 (1.6GHz-15MB/DDR4-1600 Option Kit (DL160Gen9)	6C, 85W) Processor 355,0
Processor upgrade for 1650/1850	
P-I 719052-B21 Intel Xeon E5-2609v3 (1.9GHz-15MB/DDR4-1600 Option Kit (DL380Gen9)	6C, 85W) Processor 490,0
Processor upgrade for 1650 E	
P-I EOL 803303-B21 HP Apollo 4200 Gen9 Intel Xeon E5-2609v3 (1.96 Processor Kit	Hz/6-core/15MB/85W) 490,0
Memory expansion for 1450/1650/1650E/1850	
P-I 726718-B21 HPE 8GB (1x8GB) Registered DDR4-2133 PC4-1	7000 CL15 Single Rank 225.0
Memory Kit	3, 4
Security options	
488069-B21 HP Trusted Platform Module Option	40,0
I/O expansion options (warning these kits require the second processor to be	e installed)
725586-B21 HP DL160 Gen9 Low Profile PCIe CPU2 Riser Kit	45,0
719073-B21 HP DL380 Gen9 Secondary 3 Slot GPU Ready Ri	ser Kit 95,0
Power options for 1450	
775595-B21 HPE 900W AC 240VDC Power Input Module	150,0
Power options for 1550	
512327-B21 HP 750W Common Slot Gold Hot Plug Power Sup	ply (92% efficiency) 250,0
Optical disk drives for 14xx/15xx	
726536-B21 HP 9.5mm SATA DVD-ROM JackBlack Gen9 Opt	cal Drive 90,0
726537-B21 HP 9.5mm SATA DVD-RW JackBlack G9 Optical	Orive 130,0
Reccommended Smart Array for external expansion	
Reccommended Smart Array for external expansion 726903-B21 HP Smart Array P841/4GB FBWC 12Gb 4-ports E	xt SAS Controller 1.390,0
Reccommended Smart Array for external expansion 726903-B21 HP Smart Array P841/4GB FBWC 12Gb 4-ports E 726825-B21 HP Smart Array P441/4GB FBWC 12Gb 2-ports E	· · ·
726903-B21 HP Smart Array P841/4GB FBWC 12Gb 4-ports E	·

StoreEasy 62/97



	PN	Description	REP (in €)
StoreEasy (Capacity expansion	on for 1450/1550/1650/1650E (1650E, only in external JBOD)	
to the quick 4200) or the	specs of the resp D3600 JBOD	erage of supported hard disks for the StoreEasy systems, please refer pective servers (ProLiant DL160 gen9 / DL380 Gen9/ML110 Gen9 / Apollo	
2nd Drive C	age for 1550	Turbut 440 0 0 44 FF H 4 PL D 1 0 46	400.00
	784584-B21	HP ML110 Gen9 4LFF Hot Plug Drive Cage Kit Kit contents: ML110 G9 2nd drive cage for an additional 4 x 3.5" LFF disks	130,00
JBODs	•		
P-I	QW968A	HPE D3600 Enclosure	2.951,00
		Kit contents : D3600Base Unit with redundant power supplies, redundant fans and dual domain I/O. No SAS cable !	
StoreEasy of	lisk bundles (sma		_
P-I	E7W88A	HP StoreEasy 4TB SAS LFF SC 4 HDD	1.379,00
		4 x 1TB LFF 7.2K rpm disk drive	
P-I	E7W89A	HP StoreEasy 8TB SAS LFF SC 4 HDD 4 x 2TB LFF 7.2K rpm disk drive	2.277,00
P-I	E7W90A	HPE StoreEasy 12TB SAS LFF SC 4 HDD	2.950,00
		4 x 3TB LFF 7.2K rpm disk drive	
P-I	E7W91A	HPE StoreEasy 16TB SAS LFF SC 4 HDD	3.735,00
		4 x 4TB LFF 7.2K rpm disk drive	
P-I	K2R22A	HPE 24TB SAS LFF SC 4-pk HDD Bndl	4.781,00
		4 x 6TB LFF 7.2K rpm disk drive	
P-I	N9Y12A	HPE 32TB SAS LFF SC 4-pk HDD Bndl	6.239,00
		4 x 8TB LFF 7.2K rpm 12G SAS disk drive	
P-D	Q0F60A	HPE 40TB SAS LFF SC 4-pk HDD Bndl	8.333,00
		4 x 10TB LFF 7.2K rpm 12G SAS disk drive	
Storo Eggy o	liak bundlaa fra 1		<u> </u>
	_	650 Expanded : Low Profile Smart Carriers	0.000.00
P-D	N9Y58A	HPE 8TB SAS LFF LP 4pk HDD Bndl 4 x 2TB LFF 7.2K rpm 6G SAS disk drive	2.202,00
	1101/404		0.000.00
P-I	N9Y43A	HPE 16TB SAS LFF LP 4-pk HDD Bndl	3.660,00
		4 x 4TB LFF 7.2K rpm 6G SAS disk drive	
P-I	N9Y44A	HPE 24TB SAS LFF LP 4-pk HDD Bndl	4.707,00
		4 x 6TB LFF 7.2K rpm 6G SAS disk drive	
P-I	N9Y45A	HPE 32TB SAS LFF LP 4-pk HDD Bndl 4 x 8TB LFF 7.2K rpm 6G SAS disk drive	6.164,00
P-D	Q0F61A	HPE 40TB SAS LFF LP 4-pk HDD Bndl	8.333,00
		4 x 10TB LFF 7.2K rpm 12G SAS disk drive	
P-I	N9Y46A	HPE 32TB SATA LFF LP 4-pk HDD Bndl	5.940,00
		4 x 8TB LFF 7.2K rpm 6G SATA disk drive	
P-D	Q0F62A	HPE 40TB SATA LFF LP 4-pk HDD Bndl	8.034,00
		4 x 10TB LFF 7.2K rpm 6G SATA disk drive	
StoreEasy (Capacity expansion	n for 1850	
Warning : fo	or a complete cov	rerage of supported hard disks for the StoreEasy systems, please refer Liant DL380 Gen9 or the D3700 JBOD	
JBODs	-		
P-I	QW967A	HPE D3700 Enclosure	2.951,00
		Kit contents : D3700Base Unit with redundant power supplies, redundant fans and dual domain I/O. No SAS cable !	
StoreEasy o	lisk bundles (sma		
P-I	E7W92A	HPE StoreEasy 3.6TB SAS SFF SC 4 HDD	2.837,00
1-1	252,1	4 x 900GB SFF 10K rpm disk drive	2.307,30
P-I	E7W93A	HPE StoreEasy 4.8TB SAS SFF SC 4 HDD	3.308,00
1.4	LI WOOA	4 x 1.2TB SFF 10K rpm disk drive	0.000,00
Б.	Kabaa v	,	4 000 00
P-I	K2R23A	HPE 7.2TB SAS SFF SC 4-pk HDD Bndl 4 x 1.8TB SFF 10K rpm disk drive	4.893,00
		TX 1.01D OFF TURTIPHT CHOICE	

StoreEasy 63/97



ı	PN	Description	REP
١	FIN	Description	(in €)

D3000 , D6020 & D2200sb series

The smart Carrier JBOD family contains both 6G SAS and 12G SAS JBODs. The the D2220sb is 6Gb SAS, the new D3000 series is 12Gb.
they both support the new ProLiant SmartCarrier 6G/12G SAS, 6G MDL SAS & 6G SATA drives AND the new 12G SAS SSD drives!
The Dx000 series come standard with dual domain capability.

Please note that these JBODs are only supported with Gen8 or higher ProLiant servers.

NEW: D6020 12Gb SAS JBOD; scalable to 140 LFF hard disks, now also supports SSD drives!

Base Un	its		
D6020 - 12G	SAS JBODs - Dua	al Domain - only for ProLiant Gen9 or higher	
	1	Supported servers: ProLiant Gen8/9 servers, Bladesystem Gen8/9! Not supported as	
		JBOD for MSA!	
P-I	K2Q28A	HPE D6020 Enclosure with Dual IO Modules	7.944,0
		Kit contents: D6020Base Unit with redundant power supplies, redundant fans and dual	
		domain I/O. No SAS cable !	
P-I	K2Q23A	HPE D6020 Dual I/O Module Option Kit	1.402,0
		Remark : Add K2Q23A option kit to K2Q28A when using dual-ported SAS drives to create a	
		dual domain environment.	
D3000 - 12G	SAS JBODs - Dua	al Domain	
		Supported servers: ProLiant Gen8/9 servers, Bladesystem Gen8/9! Not supported as JBOD for MSA!	
P-I	QW968A	HPE D3600 Enclosure	2.951,0
		Kit contents: D3600Base Unit with redundant power supplies, redundant fans and dual domain I/O. No SAS cable!	
P-I	QW967A	HPE D3700 Enclosure	2.951,0
		Kit contents: D3700Base Unit with redundant power supplies, redundant fans and dual	
		domain I/O. No SAS cable !	
D2220sb - 60	S SAS JBODs - Do	ual Domain for Bladesystem Gen8/9	
P-D	QW917A	HP D2220sb Storage Blade BTO	2.149,0
		Base Unit. Room for 12 x SFF Smart-Carrier SAS or SATA disks, P420i Smart array with	
		2GB Flash backed cache. Connects to adjacent Blade through the Blade Enclosure PCI-	
		Express backplane. Watch out : requires Smart Carrier disks	
O(II-	A -1	1 and	
Controlle	ers and Adap	ters	
ProLiant Ger	n9		
	726903-B21	HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller	1.390,0
	726825-B21	HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	820,0
	726911-B21	HP H241 12Gb 2-ports Ext Smart Host Bus Adapter	270,0
ProLiant Ger	18		
EOL	631667-B21	HP Smart Array P222/512 FBWC 6Gb 1-port Int/1-port Ext SAS Controller	620,0
	698531-B21	HP Smart Array P431/2GB FBWC 12Gb 2-ports Ext SAS Controller	940,0
	698532-B21	HP Smart Array P431/4GB FBWC 12Gb 2-ports Ext SAS Controller	1.020,0
EOL	729552-B21	HP H221 PCIe 3.0 SAS Host Bus Adapter	260,0
Bladesystem	Gen 9		
	726782-B21	HP Smart Array P741m/2G Controller	1.200,0
SAS Switche	s for Bladesyster		
P-D	BK763A	HPE 6Gb SAS BL Switch Single Pack	2.336,0
P-D	BK764A	HPE 6Gb SAS BL Switch Dual Pack	4.578.0
	le Options	THE COD ONC BEOMICH BUILT WOK	4.070,0
		0.1.0	
For connecti		0 to Smart array 421/822	
	691971-B21	HP 0.5m External Mini SAS High Density to Mini SAS Cable	55,0
	716189-B21	HP 1.0m External Mini SAS High Density to Mini SAS Cable	65,0
	716191-B21	HP 2.0m External Mini SAS High Density to Mini SAS Cable	90,0
Far assure -4	716193-B21	HP 4.0m External Mini SAS High Density to Mini SAS Cable	140,0
For connecti		0 to Smart array P431/P441/P841	40
	716195-B21	HP External 1.0m (3ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable	100,0
	716197-B21	HP External 2.0m (6ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable	130,0
1	716199-B21	HP External 4.0m (13ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable	190,0

JBODs 64/97



	PN	Description	REP (in €)
Large Fo	rm Factor S	mart Carrier Hard Drives for D6020	, (s)
12G SAS En	terprise 15K rpm	- 3 yr warranty for D6020 Only	
	737390-B21	300GB LFF 12G SAS 15K rpm HotPlug CC Enterprise hard drive (3.5")	445,00
	737396-B21	600GB LFF 12G SAS 15K rpm HotPlug CC Enterprise hard drive (3.5")	790,00
12G SAS ME	DL 7.2K rpm - 1 yr	warranty - for D6020 Only	•
	869347-B21	HPE 10TB SAS 7.2K LFF ST He 512e HDD	1.335,00
	858384-B21	HPE 8TB SAS 7.2K LFF ST 512e HDD	1.265,00
EOL	793697-B21	HPE 6TB SAS 7.2K LFF ST He 512e HDD	920,00
	826074-B21	HPE 4TB SAS 7.2K LFF ST HDD	635,00
	826072-B21	HPE 2TB SAS 7.2K LFF ST HDD	470,00
12G SAS mix	xed Use SSD - D6	020 only	
P-I	P8Y58A	HPE D6020 400GB 12G SAS MU LFF CC SSD	2.075,00
P-I	P8Y55A	HPE D6020 800GB 12G SAS MU LFF CC SSD	3.943,00
P-I	P8Y54A	HPE D6020 1.6TB 12G SAS MU LFF CC SSD	7.457,00
Large Fo	rm Factor S	mart Carrier Hard Drives for D3600	
	terprise 15K rpm		
	737261-B21	300GB LFF 12G SAS 15K rpm HotPlug SC Enterprise hard drive (3.5")	460,00
	737394-B21	450GB LFF 12G SAS 15K rpm HotPlug SC Enterprise hard drive (3.5")	710,00
	765424-B21	600GB LFF 12G SAS 15K rpm HotPlug SC Enterprise hard drive (3.5")	805,00
12G SAS ME	DL 7.2K rpm - 1 yr	warranty	
	857644-B21	HPE 10TB SAS 7.2K LFF SC He 512e DS HDD	1.805,00
P-D	861590-B21	HPE 8TB SAS 7.2K LFF SC He 512e DS HDD	1.280,00
N	861754-B21	HPE 6TB SAS 7.2K LFF SC 512e DS HDD	890,00
	846514-B21	HPE 6TB SAS 7.2K LFF SC DS HDD	930,00
EOL	793699-B21	HPE 6TB SAS 7.2K LFF SC He 512e HDD	930,00
EOL	793669-B21	4GB LFF 6G SATA 7.2K rpm HotPlug SC Midline hard drive (3.5")	620,00
LOL	818367-B21	HPE 4TB SAS 7.2K LFF SC HDD	620,00
EOL	765257-B21	4TB LFF 12G SAS 7.2K rpm HotPlug SC Midline hard drive (3.5")	620,00
	818365-B21	HPE 2TB SAS 7.2K LFF SC HDD	465,00
	846528-B21	HPE 3TB SAS 7.2K LFF SC DS HDD	650,00
	846524-B21	HPE 1TB SAS 7.2K LFF SC DS HDD	320,00
6G SATA 7.2	2Krpm - 1 yr warr		3-3,33
	857648-B21	HPE 10TB SATA 7.2K LFF SC He 512e DS HDD	1.675,00
EOL	793683-B21	HPE 6TB SATA 7.2K LFF SC He 512e HDD	870,00
EOL	765255-B21	6TB LFF 6G SATA 7.2K rpm HotPlug SC Midline hard drive (3.5")	825,00
	861693-B21	HPE 3TB SATA 7.2K LFF SC DS HDD	490,00
EOL	658079-B21	2TB LFF 6G SATA 7.2K rpm HotPlug DP SC MDL hard drive (3.5")	390.00
	861691-B21	HPE 1TB SATA 7.2K LFF SC DS HDD	230,00

JBODs 65/97



	PN	Description	REP (in €)
Large Forn	n Factor Sm	nart Carrier Solid State Drives for D3600 - 3yr warranty	
12G SAS Enter	prise Value SSD		
P-I EOL	762272-B21	1.6TB LFF 12G SAS SSD HotPlug SC Enterprise hard drive (3.5")	6.940,00
P-I EOL	762270-B21	800GB LFF 12G SAS SSD HotPlug SC Enterprise hard drive (3.5")	3.600,00
6G SATA Write	Intensive SSD		
P-I	804680-B21	HPE 1.2TB SATA WI LFF SCC SSD	2.480,00
P-I	804674-B21	HPE 800GB SATA WI LFF SCC SSD	1.220,00
P-I	804668-B21	HPE 400GB SATA WI LFF SCC SSD	615,00
P-I	804642-B21	HPE 200GB SATA WI LFF SCC SSD	360,00
6G SATA Read	Intensive SSD		
P-I EOL	816923-B21	HPE 1.92TB SATA RI LFF SCC SSD	2.720,00
P-I EOL	804602-B21	HPE 800GB SATA RI LFF SCC SSD	800,00
6G SATA Mixed	l Use SSD		
P-I	804634-B21	HPE 1.6TB SATA MU LFF SCC SSD	2.270,00
P-I EOL	804602-B21	HPE 800GB SATA RI LFF SCC SSD	800,00
P-I	832417-B21	HPE 480GB SATA MU LFF SCC SSD	730,00
P-I	804616-B21	HPE 200GB SATA MU LFF SCC SSD	310,00

JBODs 66/97



	PN	Description	REP (in €)
Small Fo	rm Factor S	mart Carrier Hard Drives for D3700 and D2220sb	
12G SAS En	terprise 15K rpm	- 3 yr warranty	
N	870753-B21	HPE 300GB SAS 15K SFF SC DS HDD	455,00
	759208-B21	300GB SFF 12G SAS 15K rpm HotPlug SC Enterprise hard drive (2.5")	455,00
	759210-B21	450GB SFF 12G SAS 15K rpm HotPlug SC Enterprise hard drive (2.5")	700,00
	759212-B21	600GB SFF 12G SAS 15K rpm HotPlug SC Enterprise hard drive (2.5")	795,00
N	870757-B21	HPE 600GB SAS 15K SFF SC DS HDD	795,00
N	870763-B21	HPE 600GB SAS 15K SFF SC 512e DS HDD	795,00
N	870759-B21	HPE 900GB SAS 15K SFF SC DS HDD	885,00
N	870765-B21	HPE 900GB SAS 15K SFF SC 512e DS HDD	900,00
12G SAS En	terprise 10K rpm	- 3 yr warranty	
N	872481-B21	HPE 1.8TB SAS 10K SFF SC 512e DS HDD	1.000,00
	791034-B21	HPE 1.8TB SAS 10K SFF SC 512e HDD	1.000,00
	781518-B21	HPE 1,2TB SFF 12G SAS 10k rpm HotPlug SC Enterprise hard drive (2.5")	655,00
	785069-B21	900GB SFF 12G SAS 10K rpm HotPlug SC Enterprise hard drive (2.5")	600,00
	781516-B21	600GB SFF 12G SAS 10K rpm HotPlug SC Enterprise hard drive (2.5")	455,00
	785067-B21	300GB SFF 12G SAS 10K rpm HotPlug SC Enterprise hard drive (2.5")	245,00
12G SAS Mic	dline 7.2K rpm - 1	yr warranty	
P-D	765466-B21	2TB SFF 12G SAS 7.2K rpm HotPlug SC hard drive (2.5")	770,00
	765464-B21	1TB SFF 12G SAS 7.2K rpm HotPlug SC hard drive (2.5")	385,00
6G SATA Mi	dline 7.2K rpm - 1	yr warranty	
	655710-B21	1TB SFF 6G SATA 7.2K rpm HotPlug DP SC MDL hard drive (2.5")	370,00
P-D	765455-B21	HPE 2TB SATA 7.2K SFF SC 512e DS HDD	760,00

JBODs 67/97



	PN	Description	REP (in €)
Small For	m Factor Sr	mart Carrier Solid state Drives for D3700 and D2220sb 3Yr War	ranty
12G SAS Mixe	edUse SSD		
P-I	822567-B21	HPE 3.2TB SAS MU SFF SC SSD	9.225,00
P-I	822563-B21	HPE 1.6TB SAS MU SFF SC SSD	5.880,00
P-I	822559-B21	HPE 800GB SAS MU SFF SC SSD	3.100,00
P-I	822555-B21	HPE 400GB SAS MU SFF SC SSD	1.350,00
12G SAS Writ	e Intensive SSD		
EOL	802586-B21	800GB SFF 12G SAS SSD rpm HotPlug SC Write Intensive hard drive (2.5")	7.080,00
EOL	802582-B21	400GB SFF 12G SAS SSD rpm HotPlug SC Write Intensive hard drive (2.5")	3.740,00
EOL	779176-B21	1.6TB SFF 12G SAS SSD rpm HotPlug EM Enterprise Mainstream hard drive (2.5")	9.380,00
EOL	779172-B21	800GB SFF 12G SAS SSD rpm HotPlug EM Enterprise Mainstream hard drive (2.5")	4.930,00
EOL	779168-B21	400GB SFF 12G SAS SSD rpm HotPlug EM Enterprise Mainstream hard drive (2.5")	2.580,00
EOL	779164-B21	200GB SFF 12G SAS SSD rpm HotPlug EM Enterprise Mainstream hard drive (2.5")	1.360,00
12G SAS Rea	d Intensive SSD		
EOL	802891-B21	1.92TB SFF 12G SAS SSD rpm HotPlug SC Read Intensive hard drive (2.5")	5.410,00
P-I EOL	762263-B21	1.6TB SFF 12G SAS SSD HotPlug SC Enterprise hard drive (2.5")	6.940,00
P-I EOL	762261-B21	800GB SFF 12G SAS SSD HotPlug SC Enterprise hard drive (2.5")	3.600,00
P-I	816562-B21	HPE 480GB SAS RI SFF SC SSD	1.430,00
	816568-B21	HPE 960GB SAS RI SFF SC SSD	2.860,00
P-I	816572-B21	HPE 1.92TB SAS RI SFF SC SSD	5.600,00
P-I	816576-B21	HPE 3.84TB SAS RI SFF SC SSD	9.000,00
6G SATA Mix	ed Use SSD		
P-I	804631-B21	HPE 1.6TB SATA MU SFF SC SSD	1.870,00
P-I	804625-B21	HPE 800GB SATA MU SFF SC SSD	1.000,00
P-I	804613-B21	HPE 200GB SATA MU SFF SC SSD	310,00
6G SATA Writ	te Intensive SSD		
P-I	804677-B21	HPE 1.2TB SATA WI SFF SC SSD	2.480,00
P-I	804671-B21	HPE 800GB SATA WI SFF SC SSD	1.220,00
P-I	804665-B21	HPE 400GB SATA WI SFF SC SSD	615,00
P-I	804639-B21	HPE 200GB SATA WI SFF SC SSD	355,00

JBODs 68/97



PN	Pagarintian	REP
FN	Description	(in €)

D-2000/6000 series

The previous generation of JBODs is no longer availalable. Exception is the D2700 (see the MSA sheet) that will remain available during the lifetime of the current MSA family, but only for connection to an MSA! For connection to a ProLiant Gen8 or Gen9, please use the D3000 or D6020 products.

D2000 ar	nd D6000 ser	ies JBODs Supported Controllers and Adapters	
ProLiant Ge	n9		
	726903-B21	HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller	1.390,00
	726825-B21	HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	820,00
	726911-B21	HP H241 12Gb 2-ports Ext Smart Host Bus Adapter	270,00
ProLiant Ge	n8		
EOL	631667-B21	HP Smart Array P222/512 FBWC 6Gb 1-port Int/1-port Ext SAS Controller	620,00
	698531-B21	HP Smart Array P431/2GB FBWC 12Gb 2-ports Ext SAS Controller	940,00
	698532-B21	HP Smart Array P431/4GB FBWC 12Gb 2-ports Ext SAS Controller	1.020,00
EOL	729552-B21	HP H221 PCIe 3.0 SAS Host Bus Adapter	260,00
Bladesysten	n Gen 9		
	726782-B21	HP Smart Array P741m/2G Controller	1.200,00
SAS Switche	es for Bladesyste	m	
P-D	BK763A	HPE 6Gb SAS BL Switch Single Pack	2.336,00
P-D	BK764A	HPE 6Gb SAS BL Switch Dual Pack	4.578,00

JBODs 69/97



	PN	Description	REP (in €)
Large Forn	n Factor Dri	ves (for MDS600, D6000,D2600)	
12G SAS Enter	prise 3.5" LFF h	ot plug HDD Dual Port - 2.5" disks in a 3.5" converter	
	737390-B21	300GB LFF 12G SAS 15K rpm HotPlug CC Enterprise hard drive (3.5")	445,00
	737396-B21	600GB LFF 12G SAS 15K rpm HotPlug CC Enterprise hard drive (3.5")	790,00
Small Forn	Factor Dri	ves (for D2700 and D2200sb), only to be used when configuring	for
connection	to a ProLia	ant Smart array, not for MSA storage !	
12G Enterprise	SAS 2.5" SFF h	ot plug HDD 15K rpm	
	785099-B21	300GB SFF 12G SAS 15K rpm HotPlug DP Enterprise hard drive (2.5")	440,00
	785101-B21	450GB SFF 12G SAS 15K rpm HotPlug DP Enterprise hard drive (2.5")	720,00
	785103-B21	600GB SFF 12G SAS 15K rpm HotPlug DP Enterprise hard drive (2.5")	780,00
12G Enterprise	SAS 2.5" SFF h	ot plug HDD 10K rpm	
P-D	785079-B21	1.2TB SFF 12G SAS 10K rpm HotPlug Enterprise hard drive (2.5")	640,00
	785075-B21	900GB SFF 12G SAS 10K rpm HotPlug Enterprise hard drive (2.5")	585,00
	785073-B21	600GB SFF 12G SAS 10K rpm HotPlug Enterprise hard drive (2.5")	440,00
	785071-B21	300GB SFF 12G SAS 10K rpm HotPlug Enterprise hard drive (2.5")	240,00
12G Mainstream	n SAS SSD SFF	SSD 2.5" SFF hot plug H2	
EOL	779170-B21	800GB SFF 12G SAS SSD rpm HotPlug EM Enterprise Mainstream hard drive (2.5")	4.950,00
EOL	779166-B21	400GB SFF 12G SAS SSD rpm HotPlug EM Enterprise Mainstream hard drive (2.5")	2.600,00
EOL	779162-B21	200GB SFF 12G SAS SSD rpm HotPlug EM Enterprise Mainstream hard drive (2.5")	1.380,00

JBODs 70/97



	PN	Description	REP (in €)
SAS cable	Options for	D2000 and D6000	
For connecting	D2000 & D6000	to Smart array. (all except P431/P441/P841)	
P-I	407339-B21	HP External Mini SAS 2m Cable	97,00
P-I	432238-B21	HP External Mini SAS 4m Cable	123,00
P-I	432239-B21	HP External Mini SAS 6m Cable	195,00
For connecting	D2000 to Smart	array 431,441,841	
	691971-B21	HP 0.5m External Mini SAS High Density to Mini SAS Cable	55,00
	716189-B21	HP 1.0m External Mini SAS High Density to Mini SAS Cable	65,00
	716191-B21	HP 2.0m External Mini SAS High Density to Mini SAS Cable	90,00
	716193-B21	HP 4.0m External Mini SAS High Density to Mini SAS Cable	140,00
For connecting	D6000 to Smart	array P431/P441/P841	
	716189-B21	HP 1.0m External Mini SAS High Density to Mini SAS Cable	65,00
	716191-B21	HP 2.0m External Mini SAS High Density to Mini SAS Cable	90,00
Carepacks	: please co	nsult the Support Services Pricelist	

JBODs 71/97



StoreEver

PN	Description	REP
FIN	Description	(in €)

StoreEver - Ultrium Tape Drives

WARN ING: INTERNAL TAPE DRIVES ARE ONLY FOR servers with internal half height or full height drive bays or rackmount tape chassis.

The family of LTO Ultrium tape drives is HP's premier line of backup devices. Based on the LTO Ultrium format, an open standard with a well-defined eight-generation roadmap, LTO Ultrium tape drives offer customers the best choice for investment protection. With ultimate reliability and ease of use in mind, even at 100% duty cycles, HP's rugged design builds on superior LTO technology and adds advanced features like hardware data encryption to create a new level of data protection. The tape drives employ dynamic data rate matching to adjust to the speed of the host, reducing wear and tear on both drive and media and increasing performance, even on slower hosts. HP's ultra-durable soft-load feature automatically positions the data cartridge together with the highly reliable leader-capture mechanism make your backup and restore operations more reliable. Support for One-Button Disaster Recovery provides the easiest way to restore data in the event of a disaster.

The family of tape drives also features support for Library and Tape Tools which provides TapeAssure health monitoring, diagnostics, and performance optimization. Included with the LTO Ultrium tape drives is the option to download Yosemite Server Backup Basic backup and recovery software providing a backup application to protect a single server. If data is critical to your business, protect it with an LTO Ultrium tape drive.

All tape drives are shipped with one data cartridge. Full height LTO drives also ship with a cleaning cartridge.







New: introducing the brand new LTO7 format: up to 15TB on a single tape cartridge!!!

	Tape Driv		
	Versions - S/		
P-I	BB873A	HPE LTO-7 Ultrium 15000 Int Tape Drive	4.376,0
P-I	EH969A	HP LTO-6 Ultrium 6250 Int Tape Drive	2.883,0
P-I	EH957B	HP LTO-5 Ultrium 3000 SAS Internal Tape Drive	2.310,0
P-I	EH919B	HP LTO-4 Ultrium 1760 SAS Internal WW Tape Drive	1.976,0
Externa	I Tape Driv	/es	
Half Heigth	Versions - SA	AS .	
P-I	BB874A	HPE LTO-7 Ultrium 15000 Ext Tape Drive	4.846,0
P-I	EH970A	HP LTO-6 Ultrium 6250 Ext Tape Drive	3.085,0
P-I	EH958B	HP LTO-5 Ultrium 3000 SAS External Tape Drive	2.323,0
P-I	EH920B	HP LTO-4 Ultrium 1760 SAS External Tape Drive	2.197,0
Full Heigth	Versions - SA	AS	•
Rackmo	unt Tape	Drives	·
P-I	C0L99A	HP LTO-6 Ultr 6250 Tape DR 1U Rackmount	3.738,0
P-I	EJ014B	HP LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mount	2.779,0
P-I	EH946C	HP LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit	2.803,0
Rackmo	unt enclo	sures and options	
P-I	AE459B	HP StorageWorks 1U SAS Rack Mount Kit	420,0
P-I	A8007B	HP StorageWorks 1U USB Rack-mount Kit	326,0

StoreEver 72/97



PN	Description	REP
FIN	Description	(in €)

StoreEver - Autoloaders

The StoreEver 1/8 G2 Tape Autoloader provides a cost-effective, easy-to-install, unattended backup that is ideal for an entry-level or remote office automated backup solution. The 1/8 G2 autoloader combines incredible storage density and tape library features into a compact 1U form factor. Capable of up to 24TB of compressed capacity in only a 1U form factor, the autoloader is well equipped to offer room for uncertain data growth. Webbased remote management offers the capability to quickly and easily access, configure, monitor, and troubleshoot the autoloader that will reduce dependencies on local IT staff while allowing multiple sites to be supported centrally. Protect confidential business information with native encryption, ensuring that if a tape is lost or stolen your data is protected from unauthorized access. Proactively monitor utilization, operational performance, as well as life and health information for both the drive and media with TapeAssure.



Ready to u	se units		
P-I	N7P34A	HPE 1/8 G2 LTO-7 FC Tape Autoloader	9.019,00
P-I	C0H19A	HP 1/8 G2 LTO-6 Ult 6250 FC Autoloader	7.156,00
P-I	BL541B	HP 1/8 G2 LTO-5 3000 FC Autoloader	6.249,00
P-I	N7P35A	HPE 1/8 G2 LTO-7 SAS Tape Autoloader	7.292,00
P-I	BL536B	HP 1/8 G2 LTO-5 3000 SAS Autoloader	5.207,00
P-I	AK377B	HP 1/8 G2 LTO-4 Ultr 1760 SAS Autoloader	4.528,00
Autoloade	Options		
P-I	AH167A	HP StorageWorks 1/8 G2 Right Magazine Kit	204,00
P-I	AH862A	HP StorageWorks 1/8 G2 Tape Autoloader Left Magazine Kit	226,00
P-I	AH166A	HP StorageWorks 1/8 G2 Tape Autoloader Rack Kit	126,00
P-I	AM495A	HP 1/8 G2 Autoloader/MSL Encryption Kit and MSL2024/MSL4048/MSL8096 Tape Library LTO-	2.336,00
Autoloade	Software		
P-I	TC407A	HPE StoreEver AL TapeAssure Adv LTU	1.358,00
P-I	TC407AAE	HPE StoreEver AL TapeAssure Adv E-LTU	1.358,00

StoreEver 73/97



PN	Description	REP (in €)
	StoreEver - MSL 2024/4048 Libraries	

The StoreEver MSL Tape Libraries meet demanding storage requirement of businesses needing unattended backup, disaster recovery, or archive capability. The MSL Libraries offer a broad choice of storage capacity and technology including LTO-6, LTO-5, or LTO-4, Ultrium tape drives. Web-based remote management makes the MSL Libraries easily managed from across the room or across the globe, eliminating the need for remote office IT staff. Quickly and simply manage the tape media both in and out of the library with the standard bar code reader, configurable mail slots, and multiple removable magazines. If a tape were lost or stolen, protect important business data from unauthorized access with data encryption options.



 $\label{eq:msl} \textbf{MSL library investment protection and uncertain data growth are easily managed within the MSL library portfolio.}$



MCI 2024/	4048 Base Units		
	AK379A		0.454.4
P-I		HP StorageWorks MSL2024 0-Drive Tape Library	2.451,
P-I	AK381A	HP StorageWorks MSL4048 0-Drive Tape Library	4.290,
SAS based	drive kits		
P-I	N7P37A	HPE MSL LTO-7 SAS Drive Upgrade Kit	5.841,
P-I	C0H27A	HP MSL LTO-6 Ultr 6250 SAS Drive Upg Kit	4.766,
P-I	BL540B	HP MSL LTO-5 Ultrium 3000 SAS Drive Kit	3.766,
P-I	AK383B	HP MSL LTO-4 Ult 1760 SAS Drive Kit	3.064,
FC based of	rive kits		
P-I	N7P36A	HPE MSL LTO-7 FC Drive Upgrade Kit	6.262,
P-I	C0H28A	HP MSL LTO-6 Ultr 6250 FC Drive Upg Kit	4.953,
P-I	BL544B	HP MSL LTO-5 Ultrium 3000 FC Drive Kit	3.926,
MSL2024/4	048/8096 Maga	zine Options	
	AG119A	HP MSL2024 Ultrium Left Mag Kit	333,
	AG120A	HP StorageWorks MSL Ultrium Right Magazine Kit	306,
	AG330A	HP StorageWorks MSL4048 Ultrium Lower Left Magazine	389,
MSL Secur	ity options		
P-I	AM495A	HP 1/8 G2 Autoloader/MSL Encryption Kit and MSL2024/MSL4048/MSL8096 Tape Library LTO-	2.336,
P-I	TC468A	HPE MSL2024/4048/8096 KMIP Encryp LTU	5.434,
MSL4048/8	096 power opti	ons	
P-I	AH220A	HP StorageWorks MSL8096 Redundant Power Supply	701,
	AF568A	HP 1.83m 10A C13 Power Cord	30,
MSL Mana	gement Softwar	re	
P-I	TC406A	HPE StoreEver MSL TapeAssure Adv LTU	2.265,
P-I	TC406AAE	HPE StoreEver MSL TapeAssure Adv E-LTU	2.265,

StoreEver 74/97



PN	Description	REP (in €)		
StoreEver - MSL 6480 Scalable Libraries				

Are your ever expanding data storage, protection and retention needs getting out of hand?

The HP StoreEver MSL6480 Tape Library is the gold standard for mid-range tape automation, delivering best-in-class scalability, density, and performance to meet your short-term backup and disaster recovery data protection needs, as well as long-term archival requirements. Keep pace with data growth by seamlessly scaling up to 7 modules-without disrupting daily data protection. You also save expensive space, as the MSL6480 provides the highest tape drive density per module of any mid-range tape library.

The MSL6480 Tape Library reduces the time and resources needed to achieve enterprise-class manageability, equipping you with proactive monitoring on single pane of glass control. Competitively priced, the MSL6480 Tape Library offers an outstanding return on your storage investment.

MSL6480

MSL 6480 Base Unit and Expansion Module

Start with a Base Module, with 80 slots and up to 6 tape drives and grow up to 560 slots and 42 tape drives in a single 42U Rack!

	and iz tapo	dives in a single 420 rack:	
P-I	QU625A	HP MSL6480 Scalable Base Module	22.322,00
P-I	QU626A	HP MSL6480 Scalable Expansion Module	12.019,00
SAS based	drive kits		
P-I	N7P37A	HPE MSL LTO-7 SAS Drive Upgrade Kit	5.841,00
P-I	C0H27A	HP MSL LTO-6 Ultr 6250 SAS Drive Upg Kit	4.766,00
P-I	BL540B	HP MSL LTO-5 Ultrium 3000 SAS Drive Kit	3.766,00
FC based dr	ive kits		
P-I	N7P36A	HPE MSL LTO-7 FC Drive Upgrade Kit	6.262,00
P-I	C0H28A	HP MSL LTO-6 Ultr 6250 FC Drive Upg Kit	4.953,00
P-I	BL544B	HP MSL LTO-5 Ultrium 3000 FC Drive Kit	3.926,00
MSL6480 Ba	se Software		
P-I	TC444A	HPE StoreEver MSL6480 CVTL LTU	1.358,00
P-I	TC444AAE	HPE StoreEver MSL6480 CVTL E-LTU	1.358,00
MSL6048 hig	gh availability s	oftware	
P-I	P9H33A	HPE MSL6480 LTO-7 Path Failover LTU	5.434,00
	TC359A	HPE MSL6480 LTO-5/6 Ctrl Failover LTU	2.718,00
	TC360A	HPE MSL6480 LTO-5/6 Data Failover LTU	2.718,00
MSL Securit	y software		
P-I	TC469A	HPE StoreEver MSL6480 ESKM Encryp LTU	5.434,00
P-I	D4T75A	HPE MSL6480 Secure Manager LTU	1.811,00
P-I	D4T75AAE	HPE MSL6480 Secure Manager E-LTU	1.811,00
P-I	D4T76A	HPE MSL6480 KMIP 1.2 Key Manager LTU	13.586,00
P-I	D4T76AAE	HPE MSL6480 KMIP 1.2 Key Manager E-LTU	13.586,00
MSL Manage	ement Software		
P-I	TC445A	HPE StoreEver MSL6480 TapeAssure Adv LTU	3.170,00
P-I	TC445AAE	HPE StoreEver MSL6480 TapeAssu Adv E-LTU	3.170,00

StoreEver 75/97



	DNI	Receviation	REP
	PN	Description	(in €)

Connectivity options for Tape Backup Solutions

SAS & S	SCSI HBA's		
Serial Atta	ched SCSI (SAS	6) Host Bus Adapters (for ProLiant Gen9 Servers)	
	726911-B21	HP H241 12Gb 2-ports Ext Smart Host Bus Adapter	270,00
	726907-B21	HP H240 12Gb 2-ports Int Smart Host Bus Adapter	230,00
	726825-B21	HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	820,00
	726821-B21	HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	820,00
	726736-B21	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller	560,00
	726903-B21	HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller	1.390,00
Serial Atta	ched SCSI (SAS	S) Host Bus Adapters (for ProLiant Gen8 Servers)	
EOL	631667-B21	HP Smart Array P222/512 FBWC 6Gb 1-port Int/1-port Ext SAS Controller	620,00
	631670-B21	HP Smart Array P420/1GB FBWC 6Gb 2-ports Int SAS Controller	820,00
	631671-B21	HP Smart Array P420/2GB FBWC 6Gb 2-ports Int SAS Controller	940,00
	698531-B21	HP Smart Array P431/2GB FBWC 12Gb 2-ports Ext SAS Controller	940,00
SAS Ca	bles for Gei	n8 servers	
For Extern	al and Rackmou	unt Tape drives and Autoloaders (1 tape drive per cable)	
	AE470A	HP SAS Min-Min 1x-2M Cable Assembly Kit	86,00
	AE465A	HP StorageWorks SAS MIN-MIN 1X-4M Cable Assembly Kit	143,00
For MSL L	ibraries - up to	4 drives per cable	
	AN975A	HP StorageWorks 2m External Mini-SAS to 4x1 Mini-SAS Cable	267,00
	AN976A	HP StorageWorks 4m External Mini-SAS to 4x1 Mini-SAS Cable	350,00
SAS Ca	bles for Gei	n9 servers	
	al and Rackmou	unt Tape drives and Autoloaders (1 tape drive per cable)	
	716191-B21	Int Tape drives and Autoloaders (1 tape drive per cable) HP 2.0m External Mini SAS High Density to Mini SAS Cable	90,00
		,	
For Extern	716191-B21 716193-B21	HP 2.0m External Mini SAS High Density to Mini SAS Cable	
For Extern	716191-B21 716193-B21	HP 2.0m External Mini SAS High Density to Mini SAS Cable HP 4.0m External Mini SAS High Density to Mini SAS Cable	90,00

StoreEver 76/97



StoreFabric

DN	Pagarintian	REP
PN	Description	(in €)

Converged Network Adapters and Fibre Channel HBA's

The HP Dual Port Converged Network Adapters (CNAs) are dual port adapters that provide Ethernet, iSCSI, and Fibre Channel (FC) connectivity over 10GbE using both Fibre Channel over Ethernet (FCoE) and Converged Enhanced Ethernet (CEE) standards. By consolidating Ethernet, iSCSI, and Fibre Channel onto a converged network adapter, HP CNAs reduce the number of separate adapters and cables required for your datacenter and also reduce operational, power and cooling costs while preserving existing Ethernet and Fibre Channel infrastructure. HP CNAs have been thoroughly tested with HP ProLiant servers and HP Top of Rack (ToR) and End of Row (EoR) switches to ensure an optimal HP FCoE solution for your datacenter

Conve	rged Networ	rk Adapters for ProLiant Servers	
	Supported OS	see the adapter quickspecs on : www.hp.com/go/productbulletin	
P-I	QW990A	HPE CN1100R 2P Converged Network Adapter	1.336,00
P-I	E7Y06A	HPE StoreFabric CN1200E 10Gb CNA	1.336,00
N	N3U52A	HPE StoreFabric CN1100R-T 10Gb CNA	1.402,00
P-I	N3U51A	HPE StoreFabric CN1200E-T 10Gb CNA	1.682,00
Fibre (Channel HBA	A's	
32 Gb Fi	bre Channel HB	4	
	Supported OS	see the adapter quickspecs on : www.hp.com/go/productbulletin	
P-I	Q0L11A	HPE SN1600E 32Gb 1p FC HBA	2.477,00
P-I	Q0L12A	HPE SN1600E 32Gb 2p FC HBA	3.841,00
P-I	P9M75A	HPE SN1600Q 32Gb 1p FC HBA	2.477,00
P-I	P9M76A	HPE SN1600Q 32Gb 2p FC HBA	3.841,00
16 Gb Fi	bre Channel HB	<u> </u>	
	Supported OS	see the adapter quickspecs on : www.hp.com/go/productbulletin	
P-I	P9D93A	HPE SN1100Q 16Gb 1p FC HBA	1.681,00
P-I	P9D94A	HPE SN1100Q 16Gb 2p FC HBA	2.616,00
P-I	QW971A	HPE SN1000Q 16Gb 1P FC HBA	1.681,00
P-I	QW972A	HPE SN1000Q 16Gb 2P FC HBA	2.616,00
P-I	Q0L13A	HPE SN1200E 16Gb 1p FC HBA	1.681,00
P-I	Q0L14A	HPE SN1200E 16Gb 2p FC HBA	2.616,00
P-I	C8R38A	HPE SN1100E 16Gb 1P FC HBA	1.681,00
P-I	C8R39A	HPE SN1100E 16Gb 2P FC HBA	2.616,00
P-I	P9D99A	HPE StoreFabric SN1100E 4p 16Gb FC HBA	5.513,00
8 Gb Fib	re Channel HBA		
	Supported OS	see the adapter quickspecs on : www.hp.com/go/productbulletin	
P-I	AK344A	HPE 81Q PCI-e FC HBA	1.093,00
P-I	AJ764A	HPE 82Q 8Gb Dual Port PCI-e FC HBA	1.728,00
N	P9D91A	HPE StoreFabric 84Q 4p 8Gb FC HBA	3.644,00
P-I	AJ762B	HPE 81E 8Gb SP PCI-e FC HBA	1.093,00
P-I	AJ763B	HPE 82E 8Gb Dual-port PCI-e FC HBA	1.728,00
N	E7Y63A	HPE StoreFabric 84E 4-port 8Gb FC HBA	3.644,00

B-Series SAN Switches (Brocade)

To remain competitive, IT organizations must keep pace with ever-increasing workloads without a similar increase in their budgets or resources. While virtualization has provided some relief by enabling the benefits of faster deployment and consolidation, it also tends to put additional stress on data center networks. In addition, the move toward cloud computing, which promises greater efficiency and a more service-oriented business model, means that these networks will face even greater demands.

The B-series Fibre channel switches meet the demands of hyper-scale, private cloud storage environments by delivering market-leading Fibre Channel technology and capabilities that support highly virtualized environments. Designed to enable maximum flexibility and investment protection, B-series switches are available in 12-24 port up to 96-port variants, in an efficiently designed 1U or 2U package. They also provide a simplified deployment process and a point-and-click user interface-making them both powerful and easy to use. The B-series SAN switches offers low-cost access to industry-leading Storage Area Network (SAN) technology while providing "pay-as-you-grow" scalability to meet the needs of an evolving storage environment.

New: SN3600B 32Gb entry level Fibre channel switch from Brocade!!

D Cori	oc. 22 Ch S	AN Switches (Brocade)	
SN3600B		AN Switches (Brocade)	
0110000	ts - no SFP's		
		TUDE ON SOOD SOOL ON SOO SOO	5.007.00
N	Q1H70A	HPE SN3600B 32Gb 24/8 FC Switch	5.607,00
N	Q1H71A	HPE SN3600B 32Gb 24/24 FC Switch	14.952,00
N	Q1H72A	HPE SN3600B 32Gb 24/24 Pwr Pk+ FC Switch	21.494,00
options			
N	Q1Z10A	HPE SN3600B 8-port FC Upgrade LTU	6.075,00
N	Q1Z10AAE	HPE SN3600B 8-port FC Upgrade E-LTU	6.075,00
N	Q1Z11A	HPE SN3600B Power Pack+ Upgrade LTU	8.523,00
N	Q1Z11AAE	HPE SN3600B Power Pack+ Upgrade E-LTU	8.523,00
N	N9Y63A	HPE B-series 4G USB Drive	326,00
SN6600B			
Base uni	ts - no SFP's		
P-I	Q0U54A	HPE SN6600B 32Gb 48/24 FC Switch	18.691,00
P-I	Q0U55A	HPE SN6600B 32Gb 48/24 Pwr Pk+ FC Switch	25.233,00
P-I	Q0U56A	HPE SN6600B 32Gb 48/48 FC Switch	37.382,00
P-I	Q0U57A	HPE SN6600B 32Gb 48/48 Pwr Pk+ FC Switch	44.859,00
Bundled	units - with SFP	's	·
P-I	Q0U58A	HPE SN6600B 32Gb 48/24 24p SFP+FC Switch	22.430,00
P-I	Q0U59A	HPE SN6600B 32Gb 48/24PP+ 24pSFP+ Switch	30.841,00
P-I	Q0U60A	HPE SN6600B 32Gb 48/48 48p SFP+FC Switch	45.794,00
P-I	Q0U61A	HPE SN6600B 32Gb 48/48PP+ 48pSFP+ Switch	51.402,00
options	•		
P-I	Q0T76AAE	HPE SN6600B 12-port FC Upgrade E-LTU	13.084,00
P-I	Q0T77AAE	HPE SN6600B 16-port 4xQSFP Upgrade E-LTU	21.495,00
P-I	Q0T78AAE	HPE SN6600B Power Pack+ Upgrade E-LTU	11.215,00
P-I	N9Y63A	HPE B-series 4G USB Drive	326,00

B-Serie	es 16 Gb S	AN Switches (Brocade)	
3-series 1	16Gbit Bladesy	stems switches	
P-D	C8S45A	Brocade 16Gb/16c Embedded SAN Switch	9.251,0
P-D	C8S46A	Brocade 16Gb/28c Embedded SAN Switch	12.149,0
P-I	C8S47A	Brocade 16Gb/28c PP+ Embedded SAN Switch	17.097,0
P-D	T5517AAE	Brocade 8/16Gb FC Switch 12-pt Upg E-LTU	4.438,0
P-D	T5517A	Brocade 8/16Gb FC Switch 12-pt Upgr LTU	4.438,0
P-I	T5521A	HPE B-series 8-24 Port Pwr Pk+ Upg LTU	7.873,0
P-I	T5521AAE	HPE B-series 8-24 Port Pwr Pk+ Upg E-LTU	7.873,0
SN3000B	16Gbit switche	es	
P-I	QW938A	HPE SN3000B 24/24 FC Switch	13.364,0
P-I	QW937A	HPE SN3000B 24/12 FC Switch	7.617,0
P-I	TC391A	HPE SN3000B SAN Switch 12-port Upg LTU	7.318,00
P-I	TC391AAE	HPE SN3000B SAN Switch 12-port Upg E-LTU	7.318,0
P-I	QW939A	HPE SN3000B Optional Power Supply	3.738,0
P-I	T5521A	HPE B-series 8-24 Port Pwr Pk+ Upg LTU	7.873,0
P-I	T5521AAE	HPE B-series 8-24 Port Pwr Pk+ Upg E-LTU	7.873,0
SN6000B	16Gbit switche	es	
P-I	QK753B	HPE SN6000B 16Gb 48/24 FC Switch	14.252,0
P-I	QR480B	HPE SN6000B 16Gb 48/48 FC Switch	28.738,00
P-I	QK754B	HPE SN6000B 16Gb 48/24 Pwr Pk+ FC Switch	20.000,00
P-I	QR481B	HPE SN6000B 16Gb 48/48 Pwr Pk+ FC Swch	35.047,00
P-I	TC356A	HPE SN6000B SAN Switch 12-port Upg LTU	12.271,00
P-I	TC356AAE	HPE SN6000B SAN Switch 12-port Upg E-LTU	12.271,0
P-I	T5528A	HPE B-series 24-40p Integr Routing LTU	17.700,0
P-I	T5528AAE	HPE B-series 24-40p Integr Routing E-LTU	17.700,0
P-I	T5522A	HPE B-series 24-40p Pwr Pk+ Upg LTU	14.855,0
P-I	T5522AAE	HPE B-series 24-40p Pwr Pk+ Upg E-LTU	14.855,0
P-I	N9Y63A	HPE B-series 4G USB Drive	326,0
SN6500B	16Gbit switche	es	·
P-I	C8R45A	HPE SN6500B 96/48 FC Switch	49.084,0
P-I	C8R43A	HPE SN6500B 96/96 FC Switch	87.710,0
P-I	C8R44A	HPE SN6500B 96/48 PowerPack+ FC Switch	67.290,0
P-I	C8R42A	HPE SN6500B 96/96 PowerPack+ FC Switch	94.393,0
P-I	TC440A	HPE SN6500B SAN Switch 24-port Upg LTU	24.065,0
P-I	TC440AAE	HPE SN6500B SAN Switch 24-port Upg E-LTU	24.065,0
P-I	TC441A	HPE SN6500B SAN Switch Power Pack+ LTU	16.206,0
P-I	TC441AAE	HPE SN6500B SAN Switch Power Pack+ E-LTU	16.206,0
N	N9Y63A	HPE B-series 4G USB Drive	326,0

B-Seri	es 8Gb SA	N Switches (Brocade)	
B-series	8Gbit Bladesys	tems switches	
P-I	AJ820C	Brocade 8/12c SAN Switch for BladeSystem	5.659,00
P-I	AJ821C	Brocade 8/24c SAN Switch for BladeSystem	8.678,00
P-I	AJ822C	Brocade 8/24c Power Pk+ SAN Swch for BL	13.392,00
P-D	T5517A	Brocade 8/16Gb FC Switch 12-pt Upgr LTU	4.438,00
P-D	T5517AAE	Brocade 8/16Gb FC Switch 12-pt Upg E-LTU	4.438,00
B-series	Entry Level swi	itches	
		parts are the replacements for the 8Gb SAN switches. Part number changes are necessary for ve reasons. No change in cost nor functionality	
P-I	AM866C	HPE 8/8 Base (0) E-port Enabled SAN Swch	3.270,00
P-I	AM867C	HPE 8/8 Base 8-port Enabled SAN Switch	4.111,00
P-I	AM868C	HPE 8/24 Base 16-port Enabled Switch	6.448,00
P-I	T4261A	HPE B-series Full Fab Switch LTU	1.494,00
P-I	T5518A	HPE 8/8 and 8/24 SAN Switch 8p Upg LTU	3.449,00
P-I	T5518AAE	HPE 8/8 and 8/24 SAN Switch 8p Upg E-LTU	3.449,00
P-I	T5521A	HPE B-series 8-24 Port Pwr Pk+ Upg LTU	7.873,00
P-I	T5521AAE	HPE B-series 8-24 Port Pwr Pk+ Upg E-LTU	7.873,00
P-I	T5527A	HPE B-series 8-24 Port ISL Trunking LTU	4.907,00
P-I	T5527AAE	HPE B-ser 8-24 Port ISL Trunking E-LTU	4.907,00
P-I	N9Y63A	HPE B-series 4G USB Drive	326,00
B-series	8 Gb Midrange	switches - upgrade options only.	
8/40 SAN	Switch		
P-I	T5519A	HPE 8/40 SAN Switch 8Gb 8-port Upg LTU	5.683,00
P-I	T5519AAE	HPE 8/40 SAN Switch 8Gb 8-port Upg E-LTU	5.683,00
P-I	T5522A	HPE B-series 24-40p Pwr Pk+ Upg LTU	14.855,00
P-I	T5522AAE	HPE B-series 24-40p Pwr Pk+ Upg E-LTU	14.855,00
P-I	T5528A	HPE B-series 24-40p Integr Routing LTU	17.700,00
P-I	T5528AAE	HPE B-series 24-40p Integr Routing E-LTU	17.700,00
8/80 SAN	Switch		
P-I	T5520A	HPE 8/80 SAN Switch 8Gb 16p Upg LTU	17.547,00
P-I	T5520AAE	HPE 8/80 SAN Switch 8Gb 16p Upg E-LTU	17.547,00
P-I	T5523A	HPE B-series 48-80p Pwr Pk+ Upg LTU	27.569,00
P-I	T5523AAE	HPE B-series 48-80p Pwr Pk+ Upg E-LTU	27.569,00
P-I	T5529A	HPE B-series 48-80p Integr Routing LTU	25.707,00
P-I	T5529AAE	HPE B-series 48-80p Integr Routing E-LTU	25.707,00
P-I	TC320A	HPE 80-port SAN Switch FICON CUP LTU	6.349,00

B-Series Software options

Electronic licenses. For Physical licenses remove the 'AE' extension to the part number

HPE Intelli	igent Infrastruc	eture Analyzer	
P-I	TC472AAE	HPE Intelligent Inft Anlyzer SW v2 E-LTU	934,00
HPE Netw	ork Advisor		•
P-I	TC352BAE	HPE B-ser SAN Network Adv Ent SW E-LTU	66.198,00
P-I	TC353BAE	HPE B-ser SAN Ntwk Adv Pro PI SW E-LTU	26.479,00
P-I	TC354BAE	HPE B-ser SAN Ntwk Adv Pro Pl Upg E-LTU	41.433,00
HPE Smar	t SAN for 3PAR	4-	
P-I	L7D48AAE	HPE Smart SAN for HPE 3PAR 7xxx E-LTU	374,00
P-I	L7D49AAE	HPE Smart SAN for HPE 3PAR 8xxx E-LTU	374,00
P-I	L7D50AAE	HPE Smart SAN for HPE 3PAR 10xxx E-LTU	748,00
P-I	L7D51AAE	HPE Smart SAN for HPE 3PAR 20xxx E-LTU	748,00
Midrange		/16/32Gb B-series switches - software upgrades	
Electronic			
P-I	1	HPE B-ser Mid/High End Fabric Wtch E-LTU	5.664,00
P-I	J4V62AAE	HPE B-ser Mid/High Adv Perf Mon E-LTU	6.215,00
P-I	J4V60AAE	HPE B-ser Mid/High ISL Trunking E-LTU	4.953,00
P-I	J4V61AAE	HPE B-ser Mid/High End Extd Fabric E-LTU	3.897,00
	J4V63AAE	HPE B-series 24-40p Integr Routing E-LTU	
P-I	T5528AAE	, , ,	17.700,00
P-I	TA748AAE	HPE 8/40 and 1606 Swtch FICON CUP E-LTU	6.431,00
Physical L	icenses		
P-I	313454-B21	HPE B-series 32-64 Fab Watch Switch LTU	5.607,00
P-I	313450-B21	HPE B-series 32-64 Adv Perf Mon LTU	6.168,00
P-I	313452-B21	HPE B-series 32-64 ISL Trnk Switch LTU	4.907,00
P-I	313458-B21	HPE B-series 32-64 Extd Fab Switch LTU	3.855,00
P-I	T5528A	HPE B-series 24-40p Integr Routing LTU	17.700,00
P-I	TA748A	HPE 8/40 and 1606 Swtch FICON CUP LTU	6.728,00
Fibre Cha	nnel transceive	rs for B-series switches	
32Gb Fibro	e Channel Tran	sceiver kits	
P-I	Q0U62A	HPE B-series 4x32Gb 4-pack SW4 QSFP XCVR	8.645,00
P-I	P9H32A	HPE B-series 32Gb SFP+ SW 1-pack XCVR	1.307,00
N P-I	P9H29A	HPE B-Series 32Gb SFP+ LW 1-pack XCVR	5.701,00
	e Channel Tran		
P-I	QK724A	HPE B-series 16Gb SFP+SW XCVR	379,00
P-I	QK725A	HPE B-series 16Gb SFP+LW 10km XCVR HPE B-series 10Gb SFP+SR XCVR	3.178,00 1.644,00
P-I EOL	QK726A	HPE B-series 10Gb SFP+LR XCVR	3.550,00
	QK727A Channel Trans		3.330,30
P-I	AW538A	HPE B-series 8Gb LW 25km FC SFP 1 Pack	5.977,00
P-I	AJ717A	HPE 8Gb LW B-series 10km FC SFP+ 1 Pack	1.589,00
P-I	AJ717A AJ716B	HPE 8Gb Short Wave B-Series SFP+ 1 Pack	168,00
P-I EOL	AJ715A	HPE 4Gb Short Wave B-series FC SFP 1 Pk	186,00
Copper tra		or CEE/FCIP switches	
P-I EOL	AW537A	HPE B-series 1GbE Copper SFP 1 Pack	298,00
For CareP	acks please co	nsult the HP Carepack pricelist	
	-		

C-Series SAN Switches (Cisco)

The SN6010C 16Gb Fabric Switch (MDS 9148S) is a high-performance, flexible, cost-effective platform providing high-density, line-rate16-Gbps ports for storage networking deployments in small, medium-sized, and large enterprise environments. The SN6010C switch offers outstanding value by providing high-availability, security, and ease of use at a cost-effective price in a compact one-rack-unit (1RU) form factor. With the flexibility to expand from 12 to 48 ports in 12-port increments, the SN6010C offers the densities required to scale from an entry-level departmental switch to top-of-rack switch to edge connectivity in enterprise SANs. The SN6010C delivers a non-blocking architecture, with all 48 16-Gbps ports operating at line rate concurrently.

The SN6010C supports the C-series Device Manager quick configuration wizard, which allows it to be deployed quickly and easily in networks of any size. Powered by C-series MDS 9000 NX-OS Software, it includes advanced storage networking features and functions and is compatible with C-series SN8000C (MDS 9500) and SN8500C (MDS 9700) Series Multilayer Directors and C-series MDS 9100 and 9200 Series Multilayer Fabric Switches, providing transparent, end-to-end service delivery in core-edge deployments.

	deployme	nts.	
HP Store	Fabric SN6010	DC 16Gb FC Switch	
P-I	K2Q16A	HP SN6010C 12-port 16Gb FC Switch	5.047,00
P-I	K2Q17A	HP SN6010C 48-port 16Gb FC Switch	20.187,00
SN60100	Options		
P-I	D4U60A	HP SN6010C 12-port 16Gb FC Upgrade LTU	5.047,00
P-I	TC364A	HP SN6000C DCNM LTU	8.937,00
P-I	A7515A	Cisco MDS 9100 Enterprise Package RTU	6.376,00
HP Store	Fabric 6500C		
		New: The HP StoreFabric SN6500C 16Gb Multi-service Switch (MDS 9250i) brings the	
		most flexible storage networking capability available in the fabric switch market today.	
		Sharing a consistent architecture with the MDS 9700 (SN8500C) Directors, the HP SN6500C	
		16Gb Multi-service Switch integrates both Fibre Channel and IP Storage Services in a single	
	I=	system to allow maximum flexibility in user configurations.	
P-I	E7Y64A	HP SN6500C 16Gb Multi-service Switch	80.373,00
		BASE switch with 20 x 16Gb ports activated, expandable to 40; 2 x10Gb ports for FCIP or iSCSI; 8 x 10Gb ports for FCOE	
SN6500C	Options	ISCOI, UX TOOD POILS TO T COL	
P-I	D4U17A	HP StoreFabric SN6500C 20-pt FC Upg LTU	21.494,00
P-I	TC365A	HP SN6500C DCNM LTU	8.937,00
P-I	A7516A	Cisco MDS 9200 Enterprise Package RTU	10.278,00
Options	for legacy C-se	eries switches	
Cisco MI	DS 9124 SAN S	Switch options	
P-I	T5171A	HP MDS 9124 8-port Upgrade RTU	2.626,00
HPE B-se	eries 1GbE Co	pper SFP 1 Pack	
P-I	A7515A	Cisco MDS 9100 Enterprise Package RTU	6.376,00
Fibre Ch	annel Transce	ivers for C series switches	
HP Store	Fabric 16Gb T	ransceivers for SN6500C, SN6010C	
P-I	C8S72A	HP C-series 16Gb FC SW SFP+ Transceiver	373,00
P-I	C8S73A	HP C-series 16Gb FC LW SFP+ Transceiver	4.579,00
HP Store	Fabric 8Gb Tra	ansceivers for MDS 8/12c/8/24c, SN6000C, SN6500C & SN6010C	
P-D	AJ906A	HP MDS 9000 8Gb FC SFP+ Short Range Transceiver	417,00
P-D	AJ907A	HP MDS 9000 8Gb FC SFP+ Long Range Transceiver	2.706,00
Cisco 4G	b Transceiver	s (SFP's) (not for MDS9120/9140, not for SN6xxx series))	
P-D	AE379A	HPE MDS9000 4Gb FC SFP 4pk Shrt Rge XCVR	636,00
Ethernet	Transceivers	for SN6500C	
P-I	AP783A	HP C-series 10GbE Short Range SFP+ XCVR	1.864,00
P-I	E7Y65A	HP C-series 10GbE LR SFP+ Transceiver	4.298,00
For Care	Packs please	consult the HP Carepack pricelist Decrease / PI - Price Increase / D - Discontinued and Available While Supply las	
- New	/ P = Price D	• • • • • • • • • • • • • • • • • • • •	
			Price List

Storage Protocol Routers

B-series extension SAN series

Storage administrators want to replicate large amounts of data quickly, reliably, and simply while minimizing operational and capital expenses. To address this challenge, the B-series Extension SAN switches Switch with Brocade Fabric Vision technology deliver unprecedented performance, continuous availability, and simplified management to handle the unrelenting growth of data traffic between data centers. The B-series extension SAN switches are purposebuilt data center extension solutions that maximizes performance and scalability for large, complex environments, allowing IT organizations to future-proof their storage extension infrastructure by adding more throughput capacity as their needs grow. They are robust platforms for large scale, multi-site data center environments implementing disk and tape data protection solutions

SN4000B	Extension SAN	Switch	
		parts are the replacements for the 1606 extension SAN switches. Part number changes are	
	necessary for	ROHS directive reasons. No change in cost nor functionality	
P-I	E7Y73B	HPE SN4000B Pwr Pk+ SAN Extension Switch	87.617,00
		24 x 16Gb FC ports (4/8/16); 16 x 1/10Gb SFP+ Ethernet ports; 2 x 40Gb Ethernet ports, compatible with QSFP transceivers. One 10/100/1000 Mgt LAN port; 1 x USB Port. Standard functionality includes: Fabric Vision, Extension Trunking, Adaptive Rate Limiting, ISL Trunking, IPsec, Compression, Open Systems Tape Pipelining (OSTP), Fast Write, Adaptive Networking and Extended Fabric.	
P-I	D4U29AAE	HPE SN4000B FICON Accelerator E-LTU	75.234,00
P-I	D4U27AAE	HPE SN4000B 10Gb WAN Rate Upgrade E-LTU	38.318,00
P-I	D4U28AAE	HPE SN4000B 40Gb WAN Rate Upgrade E-LTU	61.682,00
B-series	1606 Extension		
		parts are the replacements for the 1606 extension SAN switches. Part number changes are ROHS directive reasons. No change in cost nor functionality	
P-I	AP864C	HPE 1606 Extension SAN Pwr Pack+ Switch	57.868,00
P-I	AP863C	HPE 1606 Extension SAN Full Switch	47.326,00
P-I	AP862C	HPE 1606 Extension SAN Base Switch	13.550,00
P-I	TA746A	HPE 1606 Switch Base to Full Upg LTU	39.850,00
P-I	TA749A	HPE 1606 Swtch FICON CUP Acltr LTU	37.036,00
Fibre Cha	annel Transceiv	ers for B series extension SAN switches	
16Gb Fc	Transceivers (n	ot for 1606)	
P-I	QK724A	HPE B-series 16Gb SFP+SW XCVR	379,00
P-I	QK725A	HPE B-series 16Gb SFP+LW 10km XCVR	3.178,00
P-I	H6Z29A	HPE B-series 16Gb LW 25k FC SFP 1Pk XCVR	6.608,00
8Gb Fc T	ransceivers		
P-I	AJ716B	HPE 8Gb Short Wave B-Series SFP+ 1 Pack	168,00
P-I	AJ717A	HPE 8Gb LW B-series 10km FC SFP+ 1 Pack	1.589,00
P-I	AW538A	HPE B-series 8Gb LW 25km FC SFP 1 Pack	5.977,00
	ransceivers		
P-I EOL	AJ715A	HPE 4Gb Short Wave B-series FC SFP 1 Pk	186,00
Ethernet	Transceivers fo	r B series extension SAN switches	
1Gb Ethe	ernet Transceive		
P-I	E7Y74A	HPE B-series 1GbE LX SFP Transceiver	1.051,00
P-I EOL	AWSSIA	HPE B-series 1GbE Copper SFP 1 Pack	298,00
10Gb Eth	ernet Transceiv		
	AP823A	HPE 10GbE SR B-series SFP+ Transceiver	1.644,00
	AP824A	HPE 10GbE LR B-series SFP+ Transceiver	3.550,00
	ernet Transceiv		1
P-I	E7Y76A	HPE B-series 40GbE SR QSFP+ Transceiver	7.047,00
P-I	E7Y75A	HPE B-series 40GbE LR QSFP+ Transceiver	30.860,00

N = New / P = Price Decrease / PI = Price Increase / D = Discontinued and Available While Supply lasts

Patch cables

Coppe	r Cables		
Cat 6 RJ	45 Copper Cab	oles for 10 Gb-T	
P-I	AF594A	HP 0.9M,Blue,CAT6 STP,Cable Data	5,00
P-I	AF595A	HP 3.0M,Blue,CAT6 STP,Cable Data	8,00
P-I	AF596A	HP 10.0M,Blue,CAT6 STP, Cable Data	21,00
Cat 5e R.		ables for 1 GbE iSCSI and MGMT ports	•
	C7533A	HP 1.2m/4ft CAT5 RJ45 M/M Ethernet Cable	5,00
	C7535A	HP 2.1m/7ft CAT5 RJ45 M/M Ethernet Cable	5,00
	C7536A	HP 4.3m/14ft CAT5 RJ45 M/M Ethernet Cable	10,00
	C7537A	HP 7.6m/25ft CAT5 RJ45 M/M Ethernet Cable	10,00
	C7542A	HP 15.2m/50ft CAT5 RJ45 M/M Ethernet Cable	15,00
Fibre (Cables		
	lex OM4 cable		
P-I	QK732A	HPE Premier Flex LC/LC OM4 2f 1m Cbl	79,00
P-I	QK733A	HPE Premier Flex LC/LC OM4 2f 2m Cbl	84,00
P-I	QK734A	HPE Premier Flex LC/LC OM4 2f 5m Cbl	107,00
P-I	QK735A	HPE Premier Flex LC/LC OM4 2f 15m Cbl	151,00
P-I	QK736A	HPE Premier Flex LC/LC OM4 2f 30m Cbl	203,00
P-I	QK737A	HPE Premier Flex LC/LC OM4 2f 50m Cbl	248,00
OM3 cab			•
P-I	AJ833A	HPE .5m Multi-mode OM3 LC/LC FC Cable	61,00
P-I	AJ834A	HPE 1m Multi-mode OM3 LC/LC FC Cable	65,00
P-I	AJ835A	HPE 2m Multi-mode OM3 LC/LC FC Cable	70,00
P-I	AJ836A	HPE 5m Multi-mode OM3 LC/LC FC Cable	89,00
P-I	AJ837A	HPE 15m Multi-mode OM3 LC/LC FC Cable	126,00
P-I	AJ838A	HPE 30m Multi-mode OM3 LC/LC FC Cable	177,00
P-I	AJ839A	HPE 50m Multi-mode OM3 LC/LC FC Cable	215,00



VM Explorer

DN	Description	REP
PN	Description	(in €)

Vision Solutions and Double Take are the leading providers of IT Modernization Solutions with near-zero downtime—migration, high availability, disaster recovery, cloud and data sharing

HPE VM Explorer is a low-cost, easy-to-use and reliable backup solution for VMware vSphere and Microsoft Hyper-V environments. Within minutes you can start centrally managing your backups to disk, tape and cloud through an intuitive and easy-to-navigate web interface.

Advanced backup capabilities include incremental backups and replication, snapshot integration and native cloud support for leading Cloud platforms. With instant VM recovery, direct file level restore from the cloud, encryption, and verification, VM Explorer delivers resiliency, efficiency and agility in your virtual environments.

Key product highlights

Centrally managed backup and replication for virtual environments: protects both VMware vSphere and Microsoft Hyper-V, built-in replication

Easy to install and operate: quick installation and configuration and easy administration through an easy to navigate web interface

Secure and reliable: worry-free data protection with automated backup verification, encryption, and active directory integration

Fast and efficient backup: server-to-server fast copy, snapshot integration, dynamic compression, and Changed Block Tracking (CBT) support

Advanced VM recovery options: includes VM restore, VM power on directly from the backup and restore through vMotion, and granular file-level restore

Choice of backup targets with automated storage-tiering: public and private cloud, disk-based options, and tape enables cost-effective backup and recovery that is just right for your environment

Professional Edition	Enterprise Edition
Powerful Web Interface	All the functionality of the Professional Edition plus :
Backup & incremental backup for ESX/ESXi and Hyper-V	Instant VM recovery (IMVR) for VMware
Replication and incremental replication for ESX/ESXi and Hyper-V	Support for vMotion on IMVR
Tape backup	File-level restore from the cloud
Automated backup test for VMware	Automated test on cloud backups for VMware
File date check	Multi-user interface with Active Directory integration
Partition check	VMware vSAN support
Heartbeat test	Encrypted backups
Public and private cloud backup	
vCenter and Hyper-V cluster support	
Application-consistent backup using Windows VSS	
File-level restore	
Backup report and status via email notification	

VMexplorer 85/97



VM Explorer

	PN	Description	REP
		Vmexplorer	(in €)
Sten 1 · S	Follow each step care Be aware : when mak	v you how to configure the VMexplorer software fully and you will end up with a decent budgettary idea. ing an actual order, make sure you make the configuration in stributor can do that for you). Ordering is CTO only.	
otep i . o	HPE VM Explorer is license	and by physical CPU sockets within hypervisor hosts that contain VMs to be backed-up. Insed with a Starter Pack, and additional CPU sockets can be purchased to meet your	
	environment.		
		onal Edition Starter Pack includes the license to use (LTU) for 4 (four) CPU sockets. se Edition Starter Pack includes the license to use (LTU) for 6 (six) CPU sockets.	
	Either HPE VM Explorer Pr	rofessional Edition Starter Pack or HPE VM Explorer Enterprise Edition Starter Pack is Socket additions are applied on top of Starter Packs.	
	er starter packs	Transport of the second of the	
P-D P-D	P9U55AAE P9U57AAE	HPE VMexplorer Professional starter pack HPE VMexplorer Enterprise starter pack	653,00 1.681,00
Step 2 : A	dd additional socket		
P-D	P9U56AAE	HPE VMexplorer Professional 1 Additional CPU Socket	279,00
P-D Sten 3 · II	P9U58AAE	HPE VMexplorer Enterprise 1 Additional CPU Socket nstallation from Professional to Enterprise	420,00
P-D	P9U59AAE	HPE VMexplorer Professional starter kit to Enterprise upgrade.	1.027,00
P-D	P9U60AAE	HPE VMexplorer Professional 1 Additional CPU Socket upgrade to Enterprise	139,00
		port. Minimum is 1 year. Orders without support will be refuse	d.
Support for the	he professional starter pack		110.00
	HM611A1#XJC	Support 9*5 1Year	110,00 330,23
	HM611A3#XJC HM611A4#XJC	Support 9*5 3Year Support 9*5 4Year	440,31
	HM611A5#XJC	Support 9*5 5Year	550,38
	HM610A1#XJC	Support 24*7 - 1Year	110,00
	HM610A3#XJC	Support 24*7 - 3Year	330,23
	HM610A4#XJC	Support 24*7 - 4Year	440,31
	HM610A5#XJC	Support 24*7 - 5Year	550,38
Support for the	he Enterprise starter pack		201.64
	HM611A1#XJD	Support 9*5 1Year	281,64 844,93
	HM611A3#XJD HM611A4#XJD	Support 9*5 3Year Support 9*5 4Year	1.126,57
	HM611A5#XJD	Support 9*5 5Year	1.408,21
	HM610A1#XJD	Support 24*7 - 1Year	328,58
	HM610A3#XJD	Support 24*7 - 3Year	985,75
	HM610A4#XJD	Support 24*7 - 4Year	1.314,33
	HM610A5#XJD	Support 24*7 - 5Year	1.642,91
Support for the	he Professional additional C		47,31
	HM611A1#XJE	Support 9*5 1Year	141,94
	HM611A3#XJE HM611A4#XJE	Support 9*5 3Year Support 9*5 4Year	189,25
	HM611A5#XJE	Support 9*5 5Year	236,56
	HM610A1#XJE	Support 24*7 - 1Year	55,20
	HM610A3#XJE	Support 24*7 - 3Year	165,59
	HM610A4#XJE	Support 24*7 - 4Year	220,79
Cuprest for the	HM610A5#XJE	Support 24*7 - 5Year	275,99
Support for th	he Enterprise additional CPU		70,57
	HM611A1#XJF HM611A3#XJF	Support 9*5 1Year Support 9*5 3Year	211,71
	HM611A4#XJF	Support 9*5 4Year	282,28
	HM611A5#XJF	Support 9*5 5Year	352,85
	HM610A1#XJF	Support 24*7 - 1Year	82,33
	HM610A3#XJF	Support 24*7 - 3Year	246,99
	HM610A4#XJF	Support 24*7 - 4Year	329,33
Support for 4	HM610A5#XJF ne Professional starter kit u	Support 24*7 - 5Year	411,66
Support for th	1		172,68
	HM611A1#XJG HM611A3#XJG	Support 9*5 1Year Support 9*5 3Year	518,04
	HM611A4#XJG	Support 9*5 4Year	690,72
	HM611A5#XJG	Support 9*5 5Year	863,41
	HM610A1#XJG	Support 24*7 - 1Year	201,46
	HM610A3#XJG	Support 24*7 - 3Year	604,38
	HM610A4#XJG	Support 24*7 - 4Year	805,85
	HM610A5#XJG	Support 24*7 - 5Year	1.007,31

VMexplorer 86/97



VM Explorer

	PN	Description	REP (in €)		
Support for the	Support for the Professional additional CPU sockets upgrade to Enterprise				
	HM611A1#WBS	Support 9*5 1Year	24,05		
	HM611A3#WBS	Support 9*5 3Year	72,16		
	HM611A4#WBS	Support 9*5 4Year	96,22		
	HM611A5#WBS	Support 9*5 5Year	120,27		
	HM610A1#WBS	Support 24*7 - 1Year	28,06		
	HM610A3#WBS	Support 24*7 - 3Year	84,19		
	HM610A4#WBS	Support 24*7 - 4Year	112,25		
	HM610A5#WBS	Support 24*7 - 5Year	140,32		

VMexplorer 87/97



StoreEver Archive Manager

PN	Description	REP (in €)
Libraries and presenting standard network protoco need for administrator int	Ananger software allows creation of a tape archive by virtualizing one or more StoreEver LTO Tape the archive as a network share or mount point. The tape archive is presented as a file system using ols, thus operators and users can easily search, find, and retrieve data directly from the archive, without the ervention. HPE StoreEver Archive Manager easily integrates cost-efficient and reliable LTO tape (flow where data must be stored for long periods of time but requires minimal access.	•
Options include:		
StoreEver Archive Manager - HPE StoreEver Archive archived data HPE StoreEver Technology	Migrator software that allows for development of custom policies to identify data that can be moved to the per target. Replicator creates a duplicate copy of data in a secondary tape library for local or remote replication of the logy Migration Tool allows for transfer of data from prior tape generations (e.g. LTO-5, LTO-6) to current LTO-7) for more efficient media management.	
 Easily integrate LTO tag Develop customized po Replicate data on the no 	In the network to transfer data from primary storage to HPE StoreEver Tape Libraries. Due into a storage workflow that requires a long-term and cost-efficient data store. Icies to identify and move/stub data from primary storage to a tape library archive. Detwork, on- or off-site for creation of duplicate data stores. Yet tape technologies to higher-capacity LTO to increase tape management efficiency.	

StoreEver Archive Mgr 88/97



StoreEver Archive Manager

	PN	Description	REP
			(in €)
		StoreEver Archive Manager	
Step 1 : 8	Select your base L	icense + expansion capacity (expansion adds up, for 250TB use 1 x 50+ 2 x 200TB)	
Archive Man	ager		
P-I	P9P70A	HPE Archive Manager Base MSL 50TB LTU	9.510,00
P-I	P9P71A	HPE Archive Manager Upgr MSL 200TB LTU	24.456,00
P-I	Q0U66A	HPE Archive Manager Upgr MSL 500TB LTU	38.044,00
P-I	Q0U69A	HPE Archive Manager Upgr MSL 1PB LTU	63.406,00
P-I	Q0U72A	HPE Archive Manager Upgr MSL 2PB LTU	87.863,00
Archive Mig	rator		
P-I	P9P72A	HPE Archive Migratr Base MSL 50TB LTU	9.240,00
P-I	P9P73A	HPE Archive Migratr Upgr MSL 200TB LTU	19.927,00
P-I	Q0U67A	HPE Archive Migratr Upgr MSL 500TB LTU	29.892,00
P-I	Q0U70A	HPE Archive Migratr Upgr MSL 1PB LTU	49.819,00
P-I	Q0U73A	HPE Archive Migratr Upgr MSL 2PB LTU	69.747,00
Archive Rep	licator		
P-I	P9P74A	HPE Archive Replic Base MSL 50TB LTU	4.982,00
P-I	P9P75A	HPE Archive Replic Upgr MSL 200TB LTU	12.228,00
P-I	Q0U68A	HPE Archive Replic Upgr MSL 500TB LTU	19.022,00
P-I	Q0U71A	HPE Archive Replic Upgr MSL 1PB LTU	31.703,00
P-I	Q0U74A	HPE Archive Replic Upgr MSL 2PB LTU	43.931,00
Technology	Migration tool		
P-I	P9P76A	HPE StoreEver technology Migration tool for MSL LTU	27.174,00
Step 2 : /	Add the required s	upport. Minimum is 3 year. Orders without support will be refused.	
Foundation	Care		
P-I	Н2НАЗЕ	HPE 5 Year Foundation Care 24x7 MSL Archive Manager Base Service	13.511,00
P-I	H2HA2E	HPE 5 Year Foundation Care Next Business Day MSL Archive Manager Base Service	9.319,00

StoreEver Archive Mgr 89/97



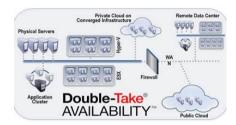
Vision Solutions Doubletake

PN Description REP

Today's businesses are under constant pressure to increase revenue, maximize efficiency, reduce risks and drive down costs. This means no tolerance for downtime or data loss. If mission-critical data, applications or servers are unavailable, you can lose revenue, forfeit customers, miss opportunities, rack up fines and suffer brand damage.

Vision Solutions Double-Take Availability and Move offers exceptional application and data protection in virtual, cloud, and physical computing environments

Vision Solutions Double-Take Availability is a proven, simple, scalable high availability solution for Windows and Linux that defends your business' profitability and reputation by providing protection from data loss and downtime. Double-Take Availability's real-time, asynchronous byte level replication efficiently and securely replicates entire servers or select data to another server located anywhere on the planet or in the cloud so that your business can quickly and easily recover from an outage. Network independence and bandwidth efficiency allow Double-Take Availability to be run on any network without the need for dedicated resources or special hardware. Hardware independence also enables replication between any physical, virtual or cloud server or storage type so that you can choose the infrastructure that meets your needs. Easy to manage and designed to scale to even the most complex server environments, Double-Take Availability keeps your business running 24x7 at a price you can afford.



The Vision Solutions doubletake products are part of the HPE complete program.

HPE Complete is a resource enabling the purchase of best in class third party branded products with the added reliability of Hewlett Packard Enterprise's interop assurance for a complete validated solution, all via one HPE purchase order.

Benefits

- --> One Stop Shop Purchase complete solutions from HPE that include best in class third party branded products, all on a single HPE purchase order
- --> Validated solution Confidence of The HPE interop assurance validation for third party branded products that complement HPE Storage & Server solutions
- --> Customer Experience Hewlett Packard Enterprise ensures complete customer satisfaction, by troubleshooting the solution and facilitating third party expertise for the installation, support and warranty of their products
- --> Unique Value Minimize risk, complexity and cost when deploying multi-vendor products and technologies into the HPE ecosystem

For more information please refer HPE Complete on HPE.com

Doubletake 90/97



Vision Solutions Doubletake

	PN	Description	REP (in €)
		Doubletake	
Doubletak	e Move : a tool for m	igrating data to a new platform (Linux and windows hosts or VM data)	
P-I	Q1C01A	VS DT Move Windows Migr 60-day LTU	257,00
P-I	Q1C02A	VS DT Move Linux Migr 60-day LTU	257,00
P-I	Q1C03A	VS DT Move SQL per User Migr 60-day LTU	467,00
P-I	Q1C04A	VS DT Move Win Cluster Migr 60-day LTU	467,00
Doubletak	e Availability : high a	availability without shared storage or a SAN!	
P-I	Q1C05A	VS DT Avail Win Virtual Ed 1yr LTU	1.023,00
P-I	Q1C06A	VS DT Avail Win Foundation Ed 1yr LTU	1.864,00
P-I	Q1C07A	VS DT Avail Win Standard Ed 1yr LTU	3.734,00
P-I	Q1C08A	VS DT Avail Win Advanced Ed 1yr LTU	5.136,00
P-I	Q1C09A	VS DT Avail Win Datacenter Ed 1yr LTU	8.528,00
P-I	Q1C10A	VS DT Avail Linux Virtual Ed 1yr LTU	1.023,00
P-I	Q1C11A	VS DT Avail Linux 1yr LTU	3.079,00
Support			

Doubletake 91/97



Veeam

PN	Description	REP (in €)
HPE Complete - Veeam Software		
means no tolerance for de	under constant pressure to increase revenue, maximize efficiency, reduce risks and drive down costs. This owntime or data loss. If mission-critical data, applications or servers are unavailable, you can lose revenue, oportunities, rack up fines and suffer brand damage.	
(RTO) and point objective Availability solutions with Systems with Catalyst an- to leverage storage snap- implementing a more coh	am software delivers a superior data protection and availability solution that meets SLAs for recovery time es (RPO) of <15mins for VMs, guest OS, data and mission critical applications. The integration of Veeam's flash-optimized HPE 3PAR StoreServ and HPE StoreVirtual Storage, coupled with HPE StoreOnce d StoreEver Tape for data protection, provides unmatched data and application availability. Users are able shots and utilize industry-leading recovery capabilities to minimize data loss and downtime while esive data backup, recovery and disaster recovery strategy The result delivers maximum application ally faster item and VM-level recoveries, increases IT efficiencies and bridges the gap to achieving 6-On Enterprise.	
Veeam's Availability for the	ne Always-On Enterprise provides organizations with 6 key capabilities:	
Data Loss Avoidance: Lo Verified Recoverability: G Leveraged Data: Low-risk HPE storage integration:	apid recovery of what you want, the way you want it w RPOs and RTOs to streamline VM recovery and disaster recovery suaranteed recovery of every file, application or virtual server, every time to deployment with a islolated test environment using production images enables advanced data Availability features for HPE's ecosystem tive monitoring and alerting of issues before operational impact	

Veeam 92/97



Veeam

	PN	Description	REP (in €)
		Veeam	
Veeam Ba	ckup Essentials - En	terprise edition	
N P-D	Q1K09A	Veeam BU Ess Ent VMw 1yr Maint LTU	1.450,00
N P-D	Q1K10A	Veeam Add 2yr BU Ess Ent VMw Maint	710,50
N	Q2C54A	Veeam Add 3yr BU Ess Ent VMw Maint	1.044,00
N	Q2C54A	Veeam Add 3yr BU Ess Ent VMw Maint	1.044,00
N P-D	Q1K21A	Veeam BU Ess Ent Hyp-V 1yr Maint LTU	1.450,00
N P-D	Q1K22A	Veeam Add 2yr BU Ess Ent Hyp-V Maint	710,50
N	Q2C72A	Veeam Add 3yr BU Ess Ent Hyp-V Maint	1.044,00
N	Q2C73A	Veeam Add 4yr BU Ess Ent Hyp-V Maint	1.348,50
Veeam Ba	ckup Essentials - Er	terprise Plus edition	
N P-D	Q1K11A	Veeam BU Ess Ent+ VMw 1yr Maint LTU	2.200,00
N P-D	Q1K12A	Veeam Add 2yr BU Ess Ent+ VMw Maint	1.078,00
N	Q2C57A	Veeam Add 3yr BU Ess Ent+ VMw Maint	1.584,00
N	Q2C58A	Veeam Add 4yr BU Ess Ent+ VMw Maint	2.046,00
N P-D	Q1K23A	Veeam BU Ess Ent+ Hyp-V 1yr Maint LTU	2.200,00
N P-D	Q1K24A	Veeam Add 2yr BU Ess Ent+ Hyp-V Maint	1.078,00
N	Q2C75A	Veeam Add 3yr BU Ess Ent+ Hyp-V Maint	1.584,00
N	Q2C76A	Veeam Add 4yr BU Ess Ent+ Hyp-V Maint	2.046,00
Veeam Av	ailability suite - Ente	rprise edition	
	Q1K13A	Veeam Avail Ent VMw 1yr Maint LTU	1.600,00
	Q1K14A	Veeam Add 2yr Avail Ent VMw Maint	784,00

Veeam 93/97



iTernity iCAS

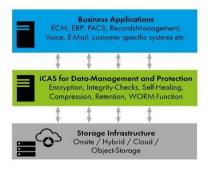
PN Description REP (in €)

iTernity Compliant Archive Software

Most businesses today are storing and archiving information digitally. Whether tax data, e-mail correspondence, patient or research data, images or video files: Unstructured, file-based application data use up growing storage space, and have to comply with many regulatory requirements. A trend which is increasing exponentially and which you can only face with effective, intelligent archiving infrastructures. To manage this balancing act, you require high-performance, consolidated, and flexible archiving solutions to reduce to a minimum the business risk of data loss or inadequate proof of justification.

The HPE Complete iTernity Compliant Archive Software (iCAS) is a storage middleware that enables compliant archiving by providing WORM functionality, protecting against silent data corruption and securing long-term data integrity. The solution compiles archive data and documents with its corresponding meta data in archive containers, which remain verifiable and can be stored on any storage medium.

The HPE Complete iCAS is certified for 100+ business applications and can be used as the central platform for various applications. It supports unrestricted growth up to the Petabyte range. Combined with HPE Storage, iTernity iCAS provides an open, flexible, and expandable long-term archiving solution for securing and protecting your business data. The solution addresses regulatory compliance requirements enabling simplified and cost-efficient archiving.



ITemity 94/97



iTernity iCAS

	PN	Description	REP (in €)	
		Veeam		
HPE iTerni	ity iCAS - Volume Plu	us licenses		
	Every server running iCAS needs an individual node license, and a license for the capacity you want to manage. Do NOT forget: It is mandatory to purchase the regarding support article.			
N	Q1Z12A	HPE Iternity Vol Plus Node LTU	4.486,00	
N	Q1Z15A	HPE Iternity Arch Vol Plus 10TB LTU	13.458,00	
N	Q1Z18A	HPE Iternity Arch Vol Plus 20TB LTU	22.430,00	
HPE iTerni	ity iCAS - CPU socke	t based licenses		
	Alternative licensing model: CPU socket based. Every server running iCAS needs a license for the number of sockets in it. No need for additional capacity licenses! Do NOT forget: It is mandatory to purchase the regarding support article.			
N	Q1Z21A	HPE Iternity 1st Server CPU LTU	53.832,00	
N	Q1Z24A	HPE Iternity Additional Svr CPU LTU	26.916,00	
HPE iTerni	ity iCAS - extensions			
	NFS connector is a NFS implementation for windows servers. It provides a NFS share for the iCAS server. NFS connector is cluster able by Microsoft Cluster services. Do NOT forget: It is mandatory to purchase the regarding support article.			
N	Q1Z27A	iTernity NFS Connector LTU	1.684,00	

lTemity 95/97



Tape Media & RDX

PN Description (in 6)

RDX product family - Removable disk Backup Systems

HPE RDX Removable Disk Backup System is a disk-based back up and recovery solution with critical security layers, unmatched portability, fast recovery and easy integration into any small business environment. Its also rugged, removable, easy-to-use, and cost effective for remote or branch office locations, small offices or home offices with little or no IT resources. HPE RDX works exceptionally well in harsh work environments where businesses need to protect, manage, transport or capture large amounts of data in less than ideal locations.

Yosemite Server Backup offers enhanced security, with automatic scheduling and software data encryption. Download information enclosed in the box.

NEW:

- 3TB bundles and 3TB cartridges, fully backward compatible!

RDX units		
Bundled Units, Inclu	de a cartridge with designated capacity	
B7B64A	RDX Removable disk Backup system, internal with 500GB media	736,30
B7B66B	RDX+ Removable disk Backup system, external with 500GB media	608,03
B7B67A	RDX Removable disk Backup system, internal with 1TB media	801,46
B7B69B	RDX+ Removable disk Backup system, external with 1TB media	678,12
E7X52A	RDX Removable disk Backup system, internal with 2TB media	974,66
E7X53B	RDX+ Removable disk Backup system, external with 2TB media	728,23
P9L71A	RDX Removable disk Backup system, internal with 3TB media	855,02
P9L72A	RDX+ Removable disk Backup system, external with 3TB media	863,76
RDX bare units, Doo	king station with software and cables, will accept any capacity of cartridge	
C8S06A	RDX internal docking station	260,86
C8S07B	RDX+ External docking station, USB3 , powered by USB connector !	206,09
RDX Catridges		
Q2042A	RDX 500GB Catridge	217,73
Q2044A	RDX 1TB Catridge	278,73
Q2046A	RDX 2TB Catridge	517,91
Q2047A	RDX 3TB Catridge	523,14

Tape technology - Cartridges, cleaning cartridges and label packs for LTO - Ultrium.

With unbroken market leadership stretching back more than ten years (according to Santa Clara Consulting Group) HPE is the most popular LTO Ultrium media in the world. That's because HPE tapes offer outstanding quality and reliability for every tape drive and every backup and archiving scenario. In 2011, HPE carried out over 2.6 million hours of testing, covering all aspects of tape usage; from full volume backups and archiving to rigorous environmental interchange tests. Backed by this uncompromising media qualification process, HPE Ultrium data cartridges support all HPE StoreEver Ultrium and non HPE Ultrium tape devices. Assuming 2.5:1 compression, the latest seventh Generation products minimize interruption to network and SAN backup by being capable of protecting 2.7TB/hour of data and storing up to 15 TB on one piece of media (9x greater capacity than HP LTO-4 Ultrium tapes)

Ultrium	Tape Carti	ridges	
Read/Write	Tape Cartridge	es	
P-D	C7977A	Ultrium 15TB RW data cartridge	161,78
P-D	C7976A	Ultrium 6,25TB RW data cartridge	46,00
P-D	C7976B	Ultrium 6,25TB BaFe RW data cartridge	57,51
	C7975A	Ultrium 3,0TB RW data cartridge	37,31
	C7974A	Ultrium 1,6TB RW data cartridge	49,67
	C7973A	Ultrium 800GB RW data cartridge	47,67
EOL	C7972A	Ultrium 400GB Data Cartridge	57,85
WORM Ta	pe Cartridges		
P-D	C7977W	Ultrium 15TB WORM data cartridge	162,97
P-D	C7976W	Ultrium 6,25TB MP WORM data cartridge	54,57
P-D	C7976BW	Ultrium 6,25TB BaFe WORM data cartridge	69,67
	C7975W	Ultrium 3,0TB WORM data cartridge	44,24
	C7974W	Ultrium 1,6TB WORM data cartridge	62,70
	C7973W	Ultrium 800GB WORM data cartridge	59,73
Cleaning	cartridge		
	C7978A	ultrium universal cleaning cartridge	155,79
Barcode L	abel Packs		
OBS	Q2001A	ultrium 1 bar code label pack	168,78
OBS	Q2002A	ultrium 2 bar code label pack	168,78
	Q2007A	ultrium 3 RW bar code label pack	168,78
	Q2008A	ultrium 3 WORM bar code label pack	168,78
	Q2009A	ultrium 4 RW bar code label pack	168,78
	Q2010A	ultrium 4 WORM bar code label pack	168,78
	Q2011A	ultrium 5 RW bar code label pack	168,78
	Q2012A	ultrium 5 WORM bar code label pack	168,78
	Q2013A	ultrium 6 RW bar code label pack	168,78
	Q2014A	ultrium 7 RW bar code label pack	168,78