



November 1, 2006

Simply Storageworks

Recommended End-user Prices (REP)

in euro (excl. VAT)



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MODIFICATIONS TO THE HP STORAGEWORKS PRICE LIST

General remark

All promotions can be found in the Promotions worksheet.



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hp StorageWorks Promotions

1/11/06

	PN	Description	Standard REP (in €)	REP (in €)	customer gain
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HP storageworks promotions for July 2006. Valid from July 1st, 2006 till July 31st, 2006
To all partners : StorageWorks Promotions below here show promotional REP pricing. Be aware that your discounts still apply !!!

My First SAN promotions

Modular Smart Array bundles : MSA1000 starter kits

*The MSA1000 SAN Starter kit promo contains all elements needed to set up your first SAN.
This package can be used on sites where there is already an installed base of x86 servers.
The package consists of an MS1000 base unit, an embedded 2Gigabit, 8-port switch, 2 x FC HBA and the necessary cables and plugs.
You just need to add servers & disks !*

MSA1000 SMB starter kit					
		<i>SMB Starter kits are supported on HP ProLiant servers only !! No third party servers supported ! Maximum 7 servers.</i>			
PROMO	A7450A	MSA1000 SMB SAN Starter Kit <i>Kit contents : MSA1000 Base Unit with single controller, 2 x Q200 FC HBA for Windows/Linux, 1 x 2/8q SAN switch+cables</i>	10.575,00	6.757,00	36%
PROMO	A7452A	MSA1000 SMB High Availability Kit for Windows/Linux <i>Kit contents : MSA1000 Redundant Array controller, 2 x Q200 FC HBA for Windows/Linux, 1 x 2/8q SAN switch + cables (uses native windows MPIO /linux failover drivers)</i>	8.594,00	5.694,00	34%

MSA1000 SAN starter kit					
		<i>Base Starter kits are supported on HP ProLiant servers AND third party servers !</i>			
PROMO	353803-B22	MSA1000 Base SAN Kit <i>Kit contents : MSA1000 Base Unit with single controller, 2 x FCA2214 Windows/Linux HBA, Embedded 2/8 MSA1000 switch+cables</i>	10.575,00	8.437,00	20%
PROMO	397079-B21	MSA1000 High Availability Kit <i>Kit contents : MSA1000 Redundant Array controller, 2 x FCA2214 Windows/Linux HBA, Embedded 2/8 MSA1000 switch+cables,</i>	8.594,00	6.757,00	21%

NEW !!! Modular Smart Array bundles : MSA1510i starter kit !

*The MSA1510i SAN Starter kit promo contains all elements needed to set up your first iSCSI based SAN.
This package can be used on sites where there is already an installed base of x86 servers.
The package consists of an MS1510i base unit, a ProCurve 2708 8-port Gigabit switch, 4 patch cables and an MSA30 disk shelf.
You just need to add servers & disks !*

WATCH OUT for carepacks : each part of this bundle requires its own carepack !					
NEW !!!	AE342AM	MSA1510i iSCSI SAN Starter Kit <i>Kit contents : MSA1510i Base Unit with single controller, 1 x HP ProCurve 2708 Gigabit Switch, 1 x MSA30 SB, 4 x Ethernet patch cables</i>	7.219,00	6.274,00	10%

Easy As NAS promotions

Starting with NAS has never been this easy : two top performers at bottom prices !!

PROMO	AG595AM	HP ProLiant DL100G2 Storage server, 1TB version <i>Intel Pentium IV 2.8Ghz Dual Core w. 2MB cache, 1GB Ram, S-ATA RAID controller , 4 x 250GB S-ATA hot plug drives, Windows Storage Server 2003 workgroup edition with 5-printer support and Exchange feature pack.</i>	4.149,00	3.086,00	26%
PROMO	AG596AM	HP ProLiant ML350 G5 Storage server 1,5TB version <i>Dual-Core Intel Xeon 5150 Processor (2.67 GHz, 1333 FSB); 2x512MB Ram; 6x250GB Hot Plug SATA disk; embedded dual multifunction Nic; 2 x Hot Plug PSU, 2 x Fan</i>	3.999,00	3.183,00	20%

The Ultimate Business Protection Promotions

Tape drive media bundles with 5 x MEDIA. No OPG required.

	AE305AT	HP StorageWorks DAT40 Internal USB, w. 5 x media	432,12	356,00	18%
	AE349AT	HP StorageWorks DAT40 External USB, w. 5 x media	512,12	424,00	17%
	AE307AT	HP StorageWorks DAT72 Internal USB, w. 5 x media	557,96	424,00	24%
	AE350AT	HP StorageWorks DAT72 External USB, w. 5 x media	637,96	501,00	21%
	AE374AT	HP StorageWorks DAT72 Internal SCSI, w. 5 x media	597,96	419,00	30%
	AE303AT	HP StorageWorks LTO232 Internal, w. 5 x media	1.393,68	989,00	29%
	A7983AT	HP StorageWorks LTO448 Internal, w. 5 x media	1.649,12	1.255,00	24%

Backup Software promo

Upgrade your free copy of Data Protector Express Single server edition or TapeWare to a full blown version of Data Protector Express at a fantastic price !

N	AE471AM	HP Data Protector Express Upgrade from Single Server Edition Promo	520,00	395,00	24%
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Tape Autoloader Promotion

Automate your backup ! Instead of buying a tape drive for each server, share a tape autoloader among multiple servers.

*The HP StorageWorks LTO448 1/8 Autoloader Starter kit, everything you need to setup an
The configuration :
HP StorageWorks 1/8 autoloader,
8 x LTO2 tape media
1 x LTO448 (LTO2) tape drive
3 year 4hr, 13x5 on-site service carepack included !
HP DataProtector Single Server edition included
Just add a servers and a SCSI card and you're off !*

	AE309A	HP StorageWorks LTO448 1/8 Autoloader starter kit 1/8 Autoloader + 1 x LTO448 drive + 8 x tape media + 3 year 13x5, 4hr support + HP Data Protector Single Server	5.685,24	3.476,00	22%
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Tape Library Promotion

Why buy an autoloader when you can have a full blown library !!! NO OPG REQUIRED !!

*The MSL 2024 Starter kits, everything you need to setup an automated backup system !
The configuration :
MSL2024 LTO library,
24 x LTO2 tape media
1 x LTO448 tape drive
1 year warranty ,parts exchange next business day.
Just add servers and a backup application and you're off !*

N	AE462AM	HP StorageWorks MSL2024 LTO448 starter kit MSL2024 + 1 x LTO448 drive + 24 x tape media	7.841,72	4.829,00	38%
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HPStorageWorks All-in-One Storage Solutions

HP All-in-One Storage Servers

Unbelievably simple. Uniquely affordable. Unquestioningly reliable.

HP StorageWorks All-in-One Storage Systems are radically simple, integrated, and affordable network storage solutions that enable small and mid-size companies to easily manage, grow, and protect their data. The AiO400 and AiO600 provide shared storage expansion for application servers, enhanced file serving for end-user clients, and comprehensive data protection features to ensure that your business is both safe and secure. Together, these functions offer a higher degree of value and utility than traditional options while allowing businesses to save time and money. These fully integrated solutions are designed to be deployed on the existing Ethernet network in less than 30 minutes by IT generalists with no storage expertise. HP All-in-One Storage Systems offer everything you need to lower the cost and complexity associated with rapidly growing data storage environments.



for options please refer to the ProLiant Server pricelist. For warranty extension and services please refer to the carepacks included in this sheet

	PN	Description	REP (in €)
Rack model			
Aio400			
P	AG502A	HP StorageWorks AiO400 1TB Storage System	4.249,00
		<i>Intel Pentium D 830 3.0GHz dual core, 2x2MB cache, 1GB Ram (exp. to 4GB), 4-port SATA HW Raid controller, 4 x 250GB S-ATA hot plug drives, 8X DVD-RW, 2x Gigabit Ethernet Windows Storage Server 2003 R2. Standard Edition, MS iSCSI Target software, HP Data</i>	
Installation Care pack services.			
	U7986E	Installation and startup for NAS (per system)	672,00
Warranty extensions			
Watch out : HARDWARE AND SOFTWARE SUPPORT (do not compare with standard ProLiant carepacks =)			
	UE976E	3 yr Support Plus 13x5 , 4hr HW response, 2Hr SW callback	1.190,00
	UE977E	3 yr Support Plus 24x7 , 4hr HW response, 2Hr SW callback	1.637,00
	UE978E	3 yr 6 hour call-to-repair (HW only carepack!!!)	1.248,00
Tower Model			
Aio600			
P	AG538A	HP StorageWorks AiO600 1.5TB Storage System	5.505,00
		<i>Intel Dual Core Xeon 2.66GHz/1333MHz FSB, 1x4MB cache (Dual CPU support), 1GB Ram, Smart Array E200i w. 128MB BBWC, 6 x 250GB S-ATA II hot plug drives. Windows Storage Server 2003 R2. MS iSCSI Target software, HP Data Protector Express full version, HP Ai</i>	
P	AG543A	HP StorageWorks AiO600 3TB Storage System	7.437,00
		<i>Intel Dual Core Xeon 2.66GHz/1333MHz FSB, 1x4MB cache (Dual CPU support), 1GB Ram, Smart Array E200i w. 128MB BBWC, 6 x 500GB S-ATA II hot plug drives. Windows Storage Server 2003 R2. MS iSCSI Target software, HP Data Protector Express full version, HP Ai</i>	
P	AG549A	HP StorageWorks AiO600 876GB SAS Storage System	7.630,00



HPStorageWorks All-in-One Storage Solutions

		<i>Intel Dual Core Xeon 2.66GHz/1333MHz FSB, 1x4MB cache (Dual CPU support), 1GB Ram, Smart Array E200i w. 128MB BBWC, 6 x 146GB, 15K rpm SAS hot plug drives. Windows Storage Server 2003 R2. MS iSCSI Target software, HP Data Protector Express full version, H</i>	
AiO600 options			
P	AG546A	AiO600 Tower to rack conversion kit	260,00
Installation Care pack services.			
	U7986E	Installation and startup for NAS (per system)	672,00
Warranty extensions			
Watch out : HARDWARE AND SOFTWARE SUPPORT (do not compare with standard ProLiant carepacks =)			
	UE984E	3 yr Support Plus 13x5 , 4hr HW response, 2Hr SW callback	1.322,00
	UE985E	3 yr Support Plus 24x7 , 4hr HW response, 2Hr SW callback	2.000,00
	UE986E	3 yr 6 hour call-to-repair (HW only carepack!!!)	963,00



StorageWorks - Modular Smart Array

For promotions pricing please check out the promotions tab

MSA20 - SATA JBOD

The MSA20 is the latest addition to the MSA product family. It is a SCSI attached SATA Raid system, providing up to 3TB of SATA storage in a 2U package. It provides the lowest possible RAID cost for near-online storage.

The MSA20 is supported with direct

	PN	Description	REP (in €)
MSA20 Base Starter Kits			
P / PLCh	366172-B21	MSA20 Base Starter Kit	2.500,00
		<i>Kit contents : MSA20 Base Unit with single controller, 1 x SA-6402 2-channel Smart Array w. 128MB cache, cables</i>	
P / PLCh	335921-B21	MSA20 Enclosure (for connection to MSA1500 or SA already in Server)	2.085,00
		<i>Kit contents : MSA20 Enclosure with Hot Plug Redundant PSU's & Fans</i>	
MSA20 Supported Controllers and Adapters			
		<i>For connection to MSA1500, please look at the MSA1500 chapter.</i>	
P	273914-B21	Smart array 6404/256	985,00
P	273911-B21	Ultra320 2 channel expansion module for SA-6402	425,00
P	273915-B21	Smart Array 6402/128	580,00
MSA20 SATA Hot-Plug HDD 1"			
P	349238-B21	160GB 7.2K RPM Hot-Plug SATA	115,00
P	349239-B21	250GB 7.2K RPM Hot-Plug SATA	170,00
P	395473-B21	500GB 7.2K rpm HP-SATA HDD	480,00
P	432341-B21	750GB 7.2K rpm HP-SATA HDD	645,00
MSA 20 Installation Care pack services.			
		<i>For bulk orders (nonboxed), please consult the HP CarePack Pricelist</i>	
PLCh	U8132E	Installation and startup for storage (per event)	403,00
MSA 20 Care Pack Warranty Extension Services.			
		<i>For bulk orders (nonboxed), please consult the HP CarePack Pricelist</i>	
PLCh	U8128E	3 yr next business day onsite response - 9x5	844,00
PLCh	U8129E	3 yr 4 hour onsite response - 13x5	1.410,00
PLCh	U8130E	3 yr 4 hour onsite response - 24x7	1.636,00
PLCh	U8131E	3 yr 6 hour onsite repair (CTR) - 24x7	2.356,00

MSA30 - SCSI Based JBOD for up to 2 servers

The MSA30 is the evolution of the StorageWorks SW42xx & SW43xx family. It used to be known as the SW44xx, and is now integrated into the rest of the MSA product family. It is an end to end Ultra320 SCSI JBOD, with support for up to 14 x 1" hot plug universal SCSI hard drives.

The MSA30 is supported with direct connect on ProLiant servers, MSA1000 or MSA1500

	PN	Description	REP (in €)
MSA30 Storage Enclosure (=SW44xx)			
P / PLCh	302969-B21	MSA30 Single Bus Enclosure, 14x1", 3U, Rack, Hot Plug Redundant PSU&fans, VHDCI	2.085,00
P / PLCh	302970-B21	MSA30 Dual Bus Enclosure, 14x1", 3U, Rack, Hot Plug Redundant PSU&fans , VHDCI	2.280,00
P / PLCh	374875-605	MSA30 Multi-initiator Enclosure, 14x1", 3U, Rack, Hot Plug Redundant PSU&fans , VHDCI Integity or PA-Risc server only ! NOT SUPPORTED ON PROLIANT!	3.345,00
MSA - Hard Disk drives (also for base unit MSA1000!)			
		<i>Universal disk drives (extension -B22) share compatibility across ProLiant servers, SW4xxx external storage enclosure, RA4100, MSA storage systems, AlphaServers and MA8000/EMA12000. For warranty extensions, disk drives are always included in the enclosur</i>	
Universal SCSI Hot-Plug HDD 1"			
P	286714-B22	72GB Ultra320 10K RPM Hot-Plug Universal	235,00
P	286716-B22	146GB Ultra320 10K RPM Hot-Plug Universal	325,00
P	350964-B22	300GB Ultra320 10K RPM Hot-Plug Universal	565,00
P	286776-B22	36GB Ultra320 15K RPM Hot-Plug, Universal	215,00
P	286778-B22	72GB Ultra320 15K RPM Hot-Plug, Universal	295,00
P	347708-B22	146GB 15K rpm U320 hotplug Universal Hard Drive	505,00



StorageWorks - Modular Smart Array

P	411089-B22	300GB 15K rpm U320 hotplug Universal Hard Drive	920,00
MSA 30 : upgrades for older SW42xx or 43xx to MSA30			
<i>The options can also be used for converting single bus to dual bus and vice-versa</i>			
P / PLCh	287484-B21	Single bus Ultra320 I/O module for SW4x00 storage enclosure	690,00
P / PLCh	287483-B21	Dual bus Ultra320 I/O module for SW4x00 storage enclosure	820,00
MSA 30 Installation Care pack services.			
<i>For bulk orders (nonboxed), please consult the HP CarePack Pricelist</i>			
PLCh	U8132E	Installation and startup for storage (per event)	403,00
MSA30 Care Pack Warranty Extension Services.			
<i>For bulk orders (nonboxed), please consult the HP CarePack Pricelist</i>			
PLCh	U8128E	3 yr next business day onsite response - 9x5	844,00
PLCh	U8129E	3 yr 4 hour onsite response - 13x5	1.410,00
PLCh	U8130E	3 yr 4 hour onsite response - 24x7	1.636,00
PLCh	U8131E	3 yr onsite repair within 6 hours of call - 24x7	2.356,00
MSA50 - SAS/SATA JBOD			

supporting the new 2.5" SAS/SATA drives, and providing up to 1.46TB of SAS storage in a 1U package. It provides the highest density external storage solutions. MSA50 is supported with direct attached Smart Array SAS controllers only. For increased capacity, the MSA50 can be cascaded, providing double capacity with the highest spindle count.

	PN	Description	REP (in €)
MSA50 Base Units			
P / PLCh	364430-B21	MSA50 Base Unit	1.570,00
<i>Kit contents : MSA50 Base Unit with redundant power supplies and fans, External 2m SAS cable</i>			
MSA50 Supported Controllers and Adapters			
<i>Only supported in DAS on ProLiant servers !</i>			
P	337972-B21	HP Smart Array P600 Controller	500,00
P	372538-B21	512MB DDR BBWC Upgrade for P600	510,00
MSA50 SAS Hot-Plug HDD 1" height, 2.5" width			
P	375859-B21	36 GB SAS 10,000 rpm Hard Drive (2.5")	215,00
P	375861-B21	72 GB SAS 10,000 rpm Hard Drive (2.5")	235,00
P	431958-B21	146 GB SAS 10,000 rpm Hard Drive (2.5")	355,00
MSA50 SATA Hot-Plug HDD 1" height, 2.5" width			
P	379306-B21	60 GB SATA 5400 rpm Hard Drive (2.5")	180,00
SAS cable Options			
P / PLCh	389665-B21	HP External SAS Cable - 1m	100,00
P / PLCh	389668-B21	HP External SAS Cable - 2m	110,00
P / PLCh	389671-B21	HP External SAS Cable - 3m	115,00
MSA 50 Installation Care pack services.			
<i>For bulk orders (nonboxed), please consult the HP CarePack Pricelist</i>			
PLCh	U8132E	Installation and startup for storage (per event)	403,00
MSA 50 Care Pack Warranty Extension Services.			
<i>For bulk orders (nonboxed), please consult the HP CarePack Pricelist</i>			
PLCh	U8128E	3 yr next business day onsite response - 9x5	844,00
PLCh	U8129E	3 yr 4 hour onsite response - 13x5	1.410,00
PLCh	U8130E	3 yr 4 hour onsite response - 24x7	1.636,00
PLCh	U8131E	3 yr 6 hour onsite repair (CTR) - 24x7	2.356,00
MSA500 - SCSI Based Shared RAID Storage System			

MSA500 G2 :Ultra320 SCSI, support for MS 4-node cluster, 256MB Battery backed cache standard, new rapid drive rebuilt, increase RAID 5 and RAID ADG rebuilds

The MSA500 is an entry level shared storage solution for up to 4 servers, providing low cost shared storage for up to 2TB.

The MSA500 is only supported on HP ProLiant Servers, running Windows, NetWare or Linux.

For in-depth technical information & configuration :

Quickspecs <http://h18004.www1.hp.com/products/servers/proliantstorage/sharedstorage/sacluster/index.html>



StorageWorks - Modular Smart Array

	PN	Description	REP (in €)
Base Starter Kits			
P / PLCh	335880-B21	MSA500 G2 Base Starter Kit	3.500,00
		<i>Kit contents : MSA500G2 Base Unit with single controller 256MB cache, 2 x SA-642 2-channel Smart Array w. 64MB cache, cables</i>	
P / PLCh	360229-B21	MSA500 G2 High Availability Kit	3.275,00
		<i>Kit contents : MSA500 G2 Redundant Array controller, 2 x SA642, MSA500G2 4-port IO module, HP Smart array Multi-path software, Cables</i>	
Redundancy/controller expansion options			
P / PLCh	335881-B21	Redundant controller w. 256 Mb cache for MSA500 G2	2.045,00
P	254786-B21	256 MB Cache Module for Controller (for both MSA500/MSA500 G2)	500,00
P / PLCh	335882-B21	4-Port Shared Storage Module for MSA500 G2 with Smart Array Multipath Software	980,00
P / PLCh	313877-B21	Rail kit for MSA500/1000 in M-series racks (also for 500G2)	165,00
		<i>MSA500 & MSA500 G2 supported Hard disks, please see the MSA30 chapter.</i>	
MSA500 G2 Approved Alternative HBA (SA6i+ on DL systems is also supported !)			
P	291967-B21	Smart Array 642 Raid Controller, 64MB Read cache, 2 channel. (Only for 3.3V PCI Slots)	355,00
MSA 500/500G2 Installation Care pack services.			
		<i>For bulk orders (nonboxed), please consult the HP CarePack Pricelist</i>	
PLCh	U6458E	Installation and startup for storage MSA500(per event)	403,00
MSA 500 & MSA500 G2 Care Pack Warranty Extension Services.			
		<i>For bulk orders (nonboxed), please consult the HP CarePack Pricelist</i>	
PLCh	U6455E	3 yr 4 hour onsite response - 13x5	1.218,00
PLCh	U6456E	3 yr 4 hour onsite response - 24x7	1.746,00
PLCh	U6457E	3 yr onsite repair within 6 hours of call - 24x7	3.305,00
MSA1510i - iSCSI Based SAN RAID Storage System			

New : MSA1510i builds on the same infrastructure as the MSA1500cs : up to 96TB of SATA storage or up to 16TB of SCSI storage.

However, MS1510i no longer requires expensive FC infrastructure and can use existing Ethernet !!!

The MSA1510 is only supported on HP ProLiant Servers, running Windows 2000 or Windows 2003

For in-depth technical information & configuration :

Quickspecs <http://h18004.www1.hp.com/products/servers/proliantstorage/sharedstorage/sacluster/index.html>

	PN	Description	REP (in €)
Base unit			
P	AD537A	MSA1510i Base Controller shelf	4.342,00
		<i>Kit contents : MSA1510i Base Unit with single controller 256MB cache and 1 x 2-channel Ethernet I/O module</i>	
Redundancy/controller expansion options			
P	AD539A	Redundant controller w. 256 Mb cache for MSA1510i	2.603,00
P	254786-B21	256 MB Cache Module for Controller	500,00
Additional connectivity options			
P	AD538A	MSA1510i 2-channel Ethernet I/O module. (one additional req.for NOSPOF configurations.)	298,00
P	AA988A	MSA1500/1510i Dual Channel I/O module (allows adding 1 MSA30, or 2 MSA20 disk shelves)	450,00
		<i>MSA1500/1510i Supported hard drives : please refer to the MSA20 and MSA30 chapters above.</i>	
MSA 1000/1500/1510i Installation Care pack services. Boxed versions are shown			
		<i>For bulk orders (nonboxed), please consult the HP CarePack Pricelist</i>	
	UA868E	Installation and startup for storage MSA1000/1500/1510i (per event)	2.351,00
	U4368E	Installation and startup for additional JBOD (MSA20/30)	336,00
MSA 1510i Base unit. Watch out : MSA30 & Switches require their own carepacks ! Care Pack Warranty Extension Services.			



StorageWorks - Modular Smart Array

		<i>For bulk orders (nonboxed), please consult the HP CarePack Pricelist</i>	
	UB950E	3 yr next business day onsite response - 9x5	905,00
	UB951E	3 yr 4 hour onsite response - 13x5	1.825,00
	UB952E	3 yr 4 hour onsite response - 24x7	2.193,00
	UB953E	3 yr onsite repair within 6 hours of call - 24x7	3.364,00

MSA1000 - Fibre Channel RAID Storage System

The MSA1000 is an Entry level Fibre Channel solution for multivendor x86 servers and AlphaServers

Support for Windows, NetWare & Linux on x86 & Itanium, Tru64 Unix & OpenVMS on Alpha, HP-UX on PA-Risc and Itanium

For in-depth technical information & configuration :

Quickspecs <http://h18006.www1.hp.com/products/storageworks/msa1000>

	PN	Description	REP (in €)
MSA1000 Components and options			
Base Units			
P	201723-B22	MSA1000: 1 Controller 256Mb cache, I/O module with gbic, redundant hot plug ps & fans, rack mounting kit, no power cables; 1 full licence of Virtual Replicator included!	4.806,00
Mounting Options			
P / PLCh	313877-B21	Rail kit for MSA500/1000 in M-series racks	165,00
Redundancy/controller expansion options			
P	218231-B22	Redundant controller 256 Mb cache for MSA1000	2.893,00
P	254786-B21	256 MB Cache Module for Controller	500,00
MSA1500 Upgrade kit			
P	AD511A	MSA1000 to MSA1500 upgrade kit	4.316,00
		<i>Kit contents : MSA1500 Controller shelf, 1 x FC I/O module+SFP, 1 x 2-channel SCSI I/O module. Hot Plug Redundant power supplies & fans standard</i>	
		<i>Plug your existing MSA1000 controller in, add an MSA30 disk shelf and you've upgraded your MSA1000 to a full blown MSA1500!</i>	
Internal SAN Switch / Connectivity /Hubs : MSA1000 only !			
P	288247-B21	MSA1000 2/8 Internal Switch	2.746,00
		<i>one internal connection, 7 external connections with 2Gb LC connections, 4 x SFP included</i> <i>Also includes support for full fabric, compatible with the StorageWorks SANSwitch 2/8 software</i>	
P	286763-B21	MSA 1000 optional Embedded 3 port hub (2 ports external)	668,00
P	218960-B21	MSA1000 Fibre Channel I/O Module for connecting a second external switch to the second raid controller (Includes 2Gb/s SFP Transceiver)	301,00

[Click here for other Fibre Channel Switches](#)

Supported Host Bus Adapters : please check the infrastructure section of this pricelist !

[Click here for HBA information](#)

MSA 1000/1500/1510i Installation Care pack services. Boxed versions are shown

		<i>For bulk orders (nonboxed), please consult the HP CarePack Pricelist</i>	
	UA868E	Installation and startup for storage MSA1000/1500/1510i (per event)	2.351,00
	U4368E	Installation and startup for additional JBOD (MSA20/30)	336,00

MSA 1000 Care Pack Warranty Extension Services.

		<i>For bulk orders (nonboxed), please consult the HP CarePack Pricelist</i>	
	U6355E	3 yr next business day onsite response - 9x5	1.340,00
	U6356E	3 yr 4 hour onsite response - 13x5	2.702,00
	U6357E	3 yr 4 hour onsite response - 24x7	3.246,00
	U9934E	3 yr onsite repair within 6 hours of call - 24x7	4.980,00

MSA1500 - Fibre Channel RAID Storage System

The MSA1500 is an mid range Fibre Channel solution for multivendor x86 servers.

The MSA1500 is the first HP Storageworks solution that allows the connection of both SATA and SCSI disk storage to a single controller.

Support for Windows, Linux and NetWare on x86. Support for HP-UX on PA-Risc & Itanium + Tru64/OpenVMS on Alpha will be added in 1H 2005

Quickspecs <http://h18006.www1.hp.com/products/storageworks/msa1500cs/index.html>



StorageWorks - Modular Smart Array

	PN	Description	REP (in €)
MSA1500 4Gbit SAN Starter Bundles			
	NEW 4Gbit switches included !	<i>These are pre-configured bundles, with a MSA1500 controller, MSA30 SCSI disk shelf, and 8 port Fibre Channel SAN switch, 2 x FC HBA's and all the necessary cabling. Everything you need to set up your first SAN !</i>	
P	AE327A	MSA1500 Base SCSI SAN starter Kit	11.137,00
		<i>Kit contents : MSA1500 Base controller shelf with single controller, 2 x FCA2214 Windows/Linux HBA, 1 xMSA30 SCSI Disk shelf, 1 x HP San Switch 4/8 Base+4x4Gbit SFP + cables</i>	
P	AE328A	MSA1500 High Availability Kit (add full high availability to the MSA1500 Starter kits)	7.916,00
		<i>Kit contents : MSA1500/1000 Additional controller with 256MB cache, 2 x FCA2214 Windows/Linux HBA, 1 x FC I/O Module , 1 x HP San Switch 4/8 Base + 4 x 4gbit SFP+ cables</i>	
MSA1500 Base unit			
P	AA986A	MSA1500 Base Controller shelf	5.608,00
		<i>Kit contents : MSA1500 Controller shelf, 1 x MSA1000 Array controller, 1 x FC I/O module, 1 x 2-channel SCSI I/O module. Hot Plug Redundant power supplies & fans standard</i>	
Redundancy/controller expansion options			
P	218231-B22	Redundant controller 256 Mb cache for MSA1000/1500	2.893,00
P	254786-B21	256 MB Cache Module for Controller	500,00
Additional connectivity options			
P	AA987A	MSA1500 Fibre Channel I/O module. (one additional req.for NOSPOF configurations. Includes embedded SFP.)	323,00
P	AA988A	MSA1500 Dual Channel I/O module (allows adding 1 MSA30, or 2 MSA20 disk shelves)	450,00
		<i>MSA1500 Supported hard drives : please refer to the MSA20 and MSA30 chapters above.</i>	
Supported SAN Switches : please check the infrastructure section of this pricelist			
Click here for Fibre Channel Switches			
Supported Host Bus Adapters : please check the infrastructure section of this pricelist !			
Click here for HBA information			
MSA 1000/1500/1510i Installation Care pack services			
		<i>For bulk orders (nonboxed), please consult the HP CarePack Pricelist</i>	
	U4368E	Installation and startup for additional JBOD (MSA20/30)	336,00
	UB958E	Installation for storage MSA1500 bundle	672,00
	UA868E	installation and startup for storage MSA1000/1500/1510i (per event)	2.351,00
MSA 1500 Base unit. Watch out : MSA30 & Switches require their own carepacks ! Care Pack Warranty Extension Services.			
	UB950E	3 yr next business day onsite response - 9x5	905,00
	UB951E	3 yr 4 hour onsite response - 13x5	1.825,00
	UB952E	3 yr 4 hour onsite response - 24x7	2.193,00
	UB953E	3 yr onsite repair within 6 hours of call - 24x7	3.364,00
MSA 1500 Bundle : include MSA1500 base shelf + MSA30/20 + 8-port SAN Switch Care Pack Warranty Extension Services.			
	UB153E	3 yr next business day onsite response - 9x5	1.576,00
	UB154E	3 yr 4 hour onsite response - 13x5	2.900,00
	UB155E	3 yr 4 hour onsite response - 24x7	3.429,00
	UB156E	3 yr onsite repair within 6 hours of call - 24x7	5.112,00
MSA1000 - High Availability Software. Host Based Software solutions			
	PN	Description	REP (in €)
SecurePath for workgroups			
		<i>securePath is multipathing software, that adds redundant paths from the server to the disk array. Securepath will automatically failover in case any of the I/O paths is lost.</i>	
Windows NT/2000/2003 version			
		<i>Remark : MSA1000 and VA7xxx only. RA4xxx support will only be included in the RA4xxx cluster kits for ProLiant (See the Industry Standard Servers Pricelist)</i>	
P	325634-B23	Secure Path v4.0C for Win WE for ProLiant BL 8 licenses	7.280,00



StorageWorks - Modular Smart Array

P	213076-B26	HP StorageWorks Secure Path 4.0C for Windows Workgroup edition 1 Licence	1.821,00
P	231316-B26	HP StorageWorks Secure Path 4.0C for Windows Workgroup edition 5 Licences	8.190,00
P	231317-B26	HP StorageWorks Secure Path 4.0C for Windows Workgroup edition 10 Licences	14.743,00
P	231318-B26	HP StorageWorks Secure Path 4.0C for Windows Workgroup edition 25 Licences	33.169,00
P	231319-B26	HP StorageWorks Secure Path 4.0C for Windows Workgroup edition 50 Licences	59.706,00
P	261715-B24	HP StorageWorks Secure Path 4.0C for Windows Workgroup Upgrade	546,00
Novell NetWare 5.x, 6.x			
		<i>Remark : Both MSA1000 as RA4x00 included</i>	
P	222411-B22	HP StorageWorks Secure Path 3.0C for NetWare for RA4100 & MSA1000 1 Licence (per	1.564,00
P	231324-B22	HP StorageWorks Secure Path 3.0C for NetWare for RA4100 & MSA1000 5 licenses	7.034,00
P	231325-B22	HP StorageWorks Secure Path 3.0C for NetWare for RA4100 & MSA1000 10 licenses	18.284,00
P	231326-B22	HP StorageWorks Secure Path 3.0C for NetWare for RA4100 & MSA1000 25 licenses	41.139,00
P	231327-B22	HP StorageWorks Secure Path 3.0C for NetWare for RA4100 & MSA1000 50 licenses	74.049,00
Linux (multiple versions : see the Securepath quickspecs)			
		<i>Remark : MSA1000 only.</i>	
P	T3581A	StorageWorks Secure Path for Workgroups for Linux V3.0C (1 License/CD)	1.640,00
P	T3582A	StorageWorks Secure Path for Workgroups for Linux V3.0C (5 Licenses/CD)	7.381,00
P	T3583A	StorageWorks Secure Path for Workgroups for Linux V3.0C (ProLiant BL , 8 Licenses/CD)	6.559,00
P	T3584A	StorageWorks Secure Path for Workgroups for Linux V3.0C (10 Licenses/CD)	13.284,00
P	T3585A	StorageWorks Secure Path for Workgroups for Linux 3.0C (25 Licenses/CD)	29.889,00
P	T3586A	StorageWorks Secure Path for Workgroups for Linux V3.0C (50 Licenses/CD)	53.800,00



HP ProLiant Storage Server NAS solutions

DO NOT FORGET TO CHECK THE PROMO SECTION AT THE FRONT OF THE PRICELIST !

HP ProLiant Data Protection Storage Servers

The HP ProLiant Data Protection Storage Servers are network attached storage (NAS) appliances that utilize Microsoft System Center Data Protection Manager 2006 (DPM) to provide rapid & reliable recovery, near continuous data protection, and operational simplicity for disk-based backup of Windows file servers in an Active Directory domain. Disk based backup and simple end-user file recovery deliver a low total cost of ownership.



Data Protection Storage Servers complement existing IT data protection infrastructures and are non-disruptive to IT environments. They can be extended further into the data protection value chain through optional SCSI interface and tape backup software to deliver a disk-to-disk-to-tape data protection framework.



	PN	Description	REP (in €)
Tower Models			
HP ProLiant ML310 G3 data Protection Storage Server			
System Units			
P	AE415A	HP ProLiant ML310 G3 Data Protection Storage Server 1TB Version	3.792,00
		Intel Pentium D 830 3.0GHz dual core, 2x1MB cache, 1GB Ram, Adaptec SA2610 6 Port SATA RAID Controller, 4 x 250GB S-ATA hot plug drives. Windows Storage Server 2003 R2 . Standard Edition. MS Data Protection manager with 3 server license. 460GB NET capacity	
Installation Care pack services.			
	U7986E	Installation and startup for storage servers (per server. Also includes cluster setup)	672,00
Warranty extensions			
Watch out : HARDWARE AND SOFTWARE SUPPORT (do not compare with standard ProLiant carepacks =)			
	UD559E	3 yr Support Plus 13x5 , 4hr HW response, 2Hr SW callback	1.270,00
	UD560E	3 yr Support Plus 24x7 , 4hr HW response, 2Hr SW callback	1.850,00
	UD562E	3 yr 6 hour call-to-repair (HW only carepack!!!)	1.101,00
Rackmount Models			
HP ProLiant DL100 G2 data Protection Storage Server			
System Units with WSS 2003 R2 - NEW			
P	AE442A	HP ProLiant DL100 G2 Data Protection Storage Server 1TB Version	4.546,00
		Intel Pentium IV 2.8GHz dual core, 2MB cache, 1GB Ram, HardWare Raid , 4 x 250GB S-ATA hot plug drives. Windows Storage Server 2003 R2. MS Data Protection manager with 3 server license. 460GB NET capacity	
P	AE443A	HP ProLiant DL100 G2 Data Protection Storage Server 2TB Version	6.335,00
		Intel Pentium IV 2.8GHz dual core, 2MB cache, 1GB Ram, HardWare Raid , 4 x 500GB S-ATA hot plug drives. Windows Storage Server 2003 R2. MS Data Protection manager with 3 server license. 920GB NET capacity	
P	AE444A	HP ProLiant DL100 G2 Data Protection Storage Server 3TB Version	8.123,00
		Intel Pentium IV 2.8GHz dual core, 2MB cache, 1GB Ram, 2 x 160GB internal S-ATA hot plug drives for OS and application, Smart Array 6402. Windows Storage Server 2003 R2 & MS Data Protection manager with 3 server license. External Storage : MSA20 with 12x250GB Hot Plug S-ATA 1.54TB Net capacity	
P	AE445A	HP ProLiant DL100 G2 Data Protection Storage Server 6TB Version	12.348,00
		Intel Pentium IV 2.8GHz dual core, 2MB cache, 1GB Ram, 2 x 160GB internal S-ATA hot plug drives for OS and application, Smart Array 6402. Windows Storage Server 2003 R2 & MS Data Protection manager with 3 server license. External Storage : 2 x MSA20 with each 12x250GB Hot Plug S-ATA 3.08TB Net capacity	
Installation Care pack services.			
	U7986E	Installation and startup for storage servers (per server. Also includes cluster setup)	672,00
Warranty extensions			
Watch out : HARDWARE AND SOFTWARE SUPPORT (do not compare with standard ProLiant carepacks =)			



HP ProLiant Storage Server NAS solutions

	UC990E	3 yr Support Plus 13x5 , 4hr HW response, 2Hr SW callback	1.310,00
	UC991E	3 yr Support Plus 24x7 , 4hr HW response, 2Hr SW callback	1.310,00
HP ProLiant DL380 G5 data Protection Storage Server			
System Units			
P	AE446A	HP ProLiant DL380 G5 Data Protection Storage Server 8TB Version	24.958,00
		<i>Intel Xeon 2.67GHz w.dual core, 4MB cache, 1GB Ram, Smart Array P400 w. 512MB on board, Smart Array 6402 for external disks, HPL Redundant Power and cooling, iLO advanced. Embedded Dual channel multifunction NIC. 2 x 36GB 15Krpm for OS and Application. Windows Storage Server 2003 and MS Data Protection manager with 3 server license. External Storage : 2 x MSA30 with each 14 x 300GB 10K rpm Hot Plug drives. Approx 5TB net capacity</i>	
HP ProLiant DL380 G4 data Protection Storage Server			
System Units			
HP ProLiant Data Protection Storage Server : Installation and Support Carepacks			
Installation Care pack services.			
	U7986E	Installation and startup for storage servers (per server. Also includes cluster setup)	672,00
Warranty extensions			
Watch out : HARDWARE AND SOFTWARE SUPPORT (do not compare with standard ProLiant carepacks !)			
DL100 DPSS 1TB			
	UC990E	3 yr Support Plus 13x5 , 4hr HW response, 2Hr SW callback	1.310,00
	UC991E	3 yr Support Plus 24x7 , 4hr HW response, 2Hr SW callback	1.310,00
DL100 DPSS 3TB			
	UD413E	3 yr Support Plus 13x5 , 4hr HW response, 2Hr SW callback	2.175,00
	UD414E	3 yr Support Plus 24x7 , 4hr HW response, 2Hr SW callback	2.946,00
DL100 DPSS 6TB			
	UD422E	3 yr Support Plus 13x5 , 4hr HW response, 2Hr SW callback	3.041,00
	UD423E	3 yr Support Plus 24x7 , 4hr HW response, 2Hr SW callback	3.986,00
DL380 DPSS 9TB			
	UD431E	3 yr Support Plus 13x5 , 4hr HW response, 2Hr SW callback	2.655,00
	UD432E	3 yr Support Plus 24x7 , 4hr HW response, 2Hr SW callback	3.969,00
Data Protection Storage Server: upgrade to Windows Storage Server R2			
P	AG462A	HP Storageworks DPSS WSS2003 R2 upgrade kit	711,00
Data Protection Storage Server : additional server licenses			
P	403557-B21	Microsoft System Center Data Protection Management License, 1 Server Agent	147,00
		<i>The base configurations ship with a license to protect 3 Windows file server. One Data Protection Management License (DPML) is required for each additional Windows file server that is protected by the Data Protection Storage Server.</i>	

HP ProLiant Storage Servers

The HP ProLiant Storage Server family delivers affordable, easy-to-use network attached storage (NAS) solutions that simplify storage management, reduce risk and IT costs, and improve efficiency. HP Storage Servers are the ideal solution for dedicated file & print serving as well as application data storing with iSCSI based storage consolidation

Here are some of the advantages of choosing for an integrated Network attached Storage Solution, compared with a classic file server :

1. Financial advantage for the customers : no extra Client Access Licenses needed
2. Easy to buy & install : unpack, connect cables, power up, create users & shares ...go !
3. HP ProLiant Storage Servers come with advanced features pre-installed :
 - Multi-protocol : CIFS (windows file protocol), NFS for Unix, Appletalk, NCF for NetWare, HTTP & FTP
 - Snapshots, Cloning, Advanced Usr quota management, storage reporting, file sweeping , etc
 - Easy to use browser based GUI , incorporating all management tools needed for day to day use.







HP ProLiant Storage Server NAS solutions



4. Additional features include : Print services, and NEW : iSCSI application data storage support



	PN	Description	REP (in €)
Tower Based Models			
HP ProLiant ML310 G3 Storage Server			
		<p>The HP ProLiant ML310 G3 Storage Server is an entry-level 5U tower form factor Network Attached Storage (NAS) solution that delivers easy to use, rapidly deployable networked storage with multi-protocol file sharing and print serving which is perfect for a small workgroup, small business or remote office.</p> <p>Windows Storage Server 2003 (WSS 2003) operating system is pre-installed, as well as a collection of storage specific management tools. The hardware is also pre-configured allowing the ProLiant ML310 G3 Storage Server to be up and running in minutes. The OS also allows for lanaging up to 5 printers out of the box. Additional printer support can be optionally added.</p> <p>HP ProLiant ML310 G3 Storage Server models are available in four different storage capacity models.</p>	
NEW !!! System Units with Windows Storage Server 2003 R2			
P	AE395A	320GB version	1.538,00
		Intel Pentium 630 3.0GHz, 2MB L2 cache, 800MHz bus, 512MB Ram, Embedded SATA controller, 2 x 160GB hot plug SATA	
P	AE400A	640GB version	2.463,00
		Dual Core Intel Pentium 830 3.0GHz, 2 x 1MB L2 cache, 800MHz bus, 512MB Ram, HP 6-port SATA RAID controller, 4 x 160GB hot plug SATA	
P	AE405A	1TB version	2.616,00
		Dual Core Intel Pentium 830 3.0GHz, 2 x 1MB L2 cache, 800MHz bus, 1GB Ram, HP 6-port SATA RAID controller, 4 x 250GB hot plug SATA	
P	AE410A	2TB version	4.105,00
		Dual Core Intel Pentium 830 3.0GHz, 2 x 1MB L2 cache, 800MHz bus, 1GB Ram, HP 6-port SATA RAID controller, 4 x 500GB hot plug SATA	
Installation Care pack services.			
	U7986E	Installation and startup for storage servers (per server. Also includes cluster setup)	672,00
Warranty extensions			
	UD553E	3 yr next business day onsite response - 9x5	882,00
	UD554E	3 yr 4 hour onsite response - 13x5	1.168,00
	UD556E	3 yr 6 hour call-to-repair	1.101,00
HP ProLiant ML350 G4p Storage Server			
		<p>New features :</p> <ul style="list-style-type: none"> - CPU's with 2MB cache, faster memory, 1GB Ram standard, Multifunction NIC, new SAS Smart Array controller - Windows Storage Server 2003 Release 2 Standard edition with print services & MS Exchange Feature pack, <p>For software expansion options & warranty extensions see the HP StorageWorks Pricelist, for hardware expansion see the ProLiant Servers options list.</p>	
System Units with Windows Storage Server 2003 R1			
D	393825-421	Base SCSI model.	3.127,00
		Intel Xeon 3.0GHz, 800MHz bus, 512MB RAM, 1 x Hot Plug PSU, 1 x FAN, 2 x 36GB 15K rpm Hot Plug SCSI	
D	393826-421	1.2TB model	7.616,00
		Intel Xeon 3.2GHz, 800MHz bus, 1GB RAM, 4 x 300GB Hot Plug SCSI for data, 2 x 36GB 15K rpm Hot Plug SCIS for OS, 2 x Hot Plug PSU, 2 x FAN	
D	393827-421	Base SATA model.	2.362,00
		Intel Xeon 3.0GHz, 800MHz bus, 512MB RAM, 1 x Hot Plug PSU, 1 x FAN, 2 x 80GB Hot Plug SATA for OS	
D	393828-421	1TB SATA model	3.821,00
		Intel Xeon 3.0GHz, 800MHz bus, 1GB RAM, 4 x 250GB Hot Plug SATA, 2 x Hot Plug PSU, 2 x FAN	
HP ProLiant ML350 G5 Storage Server			



HP ProLiant Storage Server NAS solutions

		<p>New features :</p> <ul style="list-style-type: none"> - New Dual core CPU's with 4MB cache, faster FSB, 2 x USB vs 3xUSB, iLO standard on-board, noise reduced fans & power supplies <p>General Specifications:</p> <p>Windows Storage Server 2003 Standard edition with print services & MS Exchange Feature pack, Gigabit NIC, Embedded dual channel SCSI controller, Standard Smart Array 642 pre-installed, 4 x 64-bit PCI-X, 2 x PCI-Express(4X), 16X DVD-ROM drive, 5U rackable tower chassis (rackmount kit optional)</p> <p>For software expansion options & warranty extensions see the HP StorageWorks Pricelist, for hardware expansion see the ProLiant Servers options list.</p>	
System Units			
P	AE420A	ML350 G5 Storage Server 960GB Model	3.554,00
		Dual-Core Intel Xeon 5150 Processor (2.67 GHz, 1333 FSB); 2x512MB Ram; 6x160GB Hot Plug SATA disk; embedded dual multifunction Nic; 2 x Hot Plug PSU, 2 x Fan	
P	AE425A	ML350 G5 Storage Server 1.5TB Model	3.863,00
		Dual-Core Intel Xeon 5150 Processor (2.67 GHz, 1333 FSB); 2x512MB Ram; 6x250GB Hot Plug SATA disk; embedded dual multifunction Nic; 2 x Hot Plug PSU, 2 x Fan	
P	AE430A	ML350 G5 Storage Server 3TB Model	5.717,00
		Dual-Core Intel Xeon 5150 Processor (2.67 GHz, 1333 FSB); 2x512MB Ram; 6x500GB Hot Plug SATA disk; embedded dual multifunction Nic; 2 x Hot Plug PSU, 2 x Fan	
Installation Care pack services			
	U7986E	Installation and startup for storage servers (per server. Also includes cluster setup)	672,00
Warranty extensions			
	UB995E	3 yr 4 hour onsite response - 13x5	1.217,00
	UC544E	3 yr 4 hour onsite response - 24x7	1.694,00
Rackmount Models			
HP ProLiant DL100 G2 Storage Server			
		<p>What's new : Better entry price point by using software RAID (320GB model) and WSS2003 Workgroup edition. All models now come with an integrated 8X DVD-ROM drive (no need for external version anymore !). All models have faster CPU's, and they are expandable up to 4TB with external enclosure.</p> <p>For expansion options see the HP StorageWorks Pricelist</p>	
NEW !!!! System Units with Windows Storage Server 2003 R2			
P	AE435A	HP ProLiant DL100 G2 Storage Server 320GB	2.623,00
		Intel Celeron 2.8Ghz, 512MB Ram, SoftWare Raid ,2 x 160GB S-ATA hot plug drives, Windows Storage Server 2003, workgroup edition with 5-printer support and Exchange feature pack.	
P	AE436A	HP ProLiant DL100 G2 Storage Server 640GB	3.129,00
		Intel Celeron 2.8Ghz, 512MB Ram, S-ATA RAID controller , 4 x 160GB S-ATA hot plug drives, Windows Storage Server 2003, standard edition with unlimited printer support and Exchange feature pack.	
P	AE437A	HP ProLiant DL100 G2 Storage Server 1TB	4.008,00
		Intel Pentium IV 2.8Ghz Dual Core w. 2MB cache, 1GB Ram, S-ATA RAID controller , 4 x 250GB S-ATA hot plug drives, Windows Storage Server 2003 workgroup edition with 5-printer support and Exchange feature pack.	
P	AE438A	HP ProLiant DL100 G2 Storage Server 2TB	5.279,00
		Intel Pentium IV 2.8Ghz Dual Core w. 2MB cache, 1GB Ram, S-ATA RAID controller , 4 x 500GB S-ATA hot plug drives, Windows Storage Server 2003 workgroup edition with 5-printer support and Exchange feature pack.	
Capacity Expansion options			
P	AE439A	HP ProLiant DL100 G2 Storage Server 1TB External SATA enclosure	4.787,00
		1x Smart Array 642 controller, 1 x MSA20, 4 x 250 GB hot plug SATA (universal) drives, Windows Storage Server R2 Workgroup to Standard License Upgrade and all the necessary cables.	
Performance options			
	390825-B21	512MB of Advanced ECC PC4200 DDR SDRAM DIMM Memory Kit (1 x 512MB)	72,00



HP ProLiant Storage Server NAS solutions

	390824-B21	1GBB of Advanced ECC PC4200 DDR SDRAM DIMM Memory Kit (1 x 1GB)	134,00
Software upgrades			
P	377385-B21	Windows 2003 Storage R1 Workgroup to Standard edition upgrade (for unlimited printer support)	435,00
P	AE479A	Windows 2003 Storage R2 Workgroup to Standard edition upgrade (for unlimited printer support)	401,00
Installation Care pack services.			
	U7986E	Installation and startup for storage servers (per server. Also includes cluster setup)	672,00
Warranty extensions DL100G2 with internal storage			
	UD446E	3 yr 4 hour onsite response - 13x5	933,00
	UD447E	3 yr 4 hour onsite response - 24x7	1.242,00
Warranty extensions 1TB External SATA enclosure			
	UD451E	3 yr 4 hour onsite response - 13x5	1.287,00
	UD452E	3 yr 4 hour onsite response - 24x7	1.546,00
HP ProLiant DL380 G5 Storage Server			
	<p>General Specifications: Windows Storage Server 2003 with print services & MS Exchange Feature pack, Standard edition for DAS configurations, Enterprise Edition for SAN versions. Intel Dual Core Xeon 2.67Ghz/1333MHz FSB w. 4MB cache. Support for 2 CPU's (2 CPU's standard on SAN model) 1GB Ram for DAS versions, 2GB for SAN versions 2 x Embedded Multifunction Gigabit NIC, On-Board Smart Array P400 w. 256MB BBWC, Multibay 8X DVD_R+/-RW drive. 2U rackmount chassis, Hot Plug Redundant Power Supplies & Fans, iLO2 advanced standard installed, 2x 36GB 10Krpm Hot Plug disks for OS, I/O slots : 2 x PCI-Express low profile, 2 x 64bit PCI-X Full height</p> <p>For software expansion options & warranty extensions see the HP StorageWorks Pricelist, for hardware expansion see the ProLiant Servers options list.</p>		
System Units			
P	AG453A	HP ProLiant DL380 G5 Storage Server Base unit DAS version	4.094,00
P	AG454A	HP ProLiant DL380 G5 Storage Server 1.2TB version (DAS)	8.654,00
		<i>1xMSA30 enclosure + 4x300GB U320 SCSI disks</i>	
P	AG455A	HP ProLiant DL380 G5 Storage Server 2TB version (DAS)	8.113,00
		<i>1xMSA20 enclosure + 4x500GB SATA disks</i>	
P	AG456A	HP ProLiant DL380 G5 Storage Server Base unit SAN version	5.949,00
HP ProLiant DL380 G4 Storage Server			
	<p>General Specifications: Windows Storage Server 2003 with print services & MS Exchange Feature pack, Standard edition for DAs configuratins, Enteprise Edition for SAN versions. 2 x Gigabit NIC, Embedded dual channel SCSI controller, On-Board Smart Array 6i w. 128MB BBWC, Multibay DVD drive. 3U rackmount chassis, Hot Plug Redundant Power Supplies & Fans, iLO advanced standard installed, 2x 36GB 15K Hot Plug disks for OS, 3 x 64bit PCI-X. For software expansion options & warranty extensions see the HP StorageWorks Pricelist, for hardware expansion see the ProLiant Servers options list.</p>		
Software Upgrades			
P	331474-B21	Windows Storage Server NAS cluster Kit (1 per cluster node required, used for both R1 &R2 OS)	2.101,00
		<i>Software : License to activate clustering on DL380/DL585 SAN versions. Incl. Heartbeat, Cluster management</i>	
Installation Care pack services.			
	U7986E	Installation and startup for storage servers (per server. Also includes cluster setup)	672,00
Warranty extensions DL380 BASE or SAN version			
	UD574E	3 yr 4 hour onsite response - 13x5	1.406,00
	UD575E	3 yr 4 hour onsite response - 24x7	2.084,00
Warranty extensions DL380 SCSI/SATA version			
	UE420E	3 yr 4 hour onsite response - 13x5	1.842,00





HP ProLiant Storage Server NAS solutions

	UE421E	3 yr 4 hour onsite response - 24x7	2.694,00
HP ProLiant DL585 Storage Server			
		<p><i>General Specifications: New : Dual Core CPU version ! Windows Storage Server 2003 with print services & MS Exchange Feature pack, Enterprise Edition. SAN version only. 2 x Gigabit NIC, Embedded dual channel SCSI controller, On-Board Smart Array 6i w. 128MB BBWC, Multibay DVD drive. 4U rackmount chassis, Hot Plug Redundant Power Supplies & Fans, iLO advanced standard installed, 2x 36GB 15K Hot Plug disks for OS, 6 x 64bit PCI-X. For software and warranty expansion options see the HP StorageWorks Pricelist, for hardware expansion see the DL580 G2 options list.</i></p>	
New !!! System Units with Windows Storage Server 2003 R2			
P	AE454A	HP ProLiant DL585 DC Storage Server	11.883,00
		<i>Hardware : 2 Opteron 2.2GHz dual core w. 1MB cache/core , 4GB Ram (up to 8GB). 2 x 36GB 15K rpm disks for OS; Windows Storage Server 2003 eR2 nteprise edition</i>	
Software Upgrades			
P	331474-B21	Windows Storage Server NAS cluster Kit (1 per cluster node required, used for both R1 &R2 OS)	2.101,00
		<i>Software : License to activate clustering on DL380/DL580/DL585 SAN versions. Incl. Heartbeat, Cluster management</i>	
Installation Care pack services.			
Warranty extensions			
	UE426E	3 yr 4 hour onsite response - 13x5	2.032,00
	UE427E	3 yr 4 hour onsite response - 24x7	2.959,00
HP ProLiant Storage Server : Upgrades from Windows Storage Server 2003 to Windows Storage Server 2003 R2			
		<i>These upgrade kits are validated and tested only on servers that have been or could be branded HP ProLiant Storage Servers. Be aware, this is an upgrade, not a quickrestore solution.</i>	
For HP ProLiant Storage Server ML110 G2 320GB model			
P	T4394A	Windows Storage Server 2003 R2 Express edition upgrade (no printer support)	170,00
For HP ProLiant Storage Server : ML110/ML110 G2; ML350; ML370; DL100 G1/G2; DL380 (non-SAN)			
P	T4387A	Windows Storage Server 2003 R2 Workgroup edition upgrade (5 printer support)	441,00
P	T4388A	Windows Storage Server 2003 R2 Standard edition upgrade (unlimited support)	781,00
For HP ProLiant Storage Server : DL380 SAN version ; DL580; DL585			
P	T4389A	Windows Storage Server 2003 R2 Enterprise edition upgrade (clustering & SAN support)	1.334,00
For HP NAS1200s; 1500s; 2000s;			
P	T4423A	Windows Storage Server 2003 R2 Standard Edition upgrade (unlimited printer support)	711,00
For HP NAS b2000 v2; B3000 v2; 4000; 9000			
<p>NAS B2000, B3000, E7000 first need to be upgraded to Windows Storage Server 2003 R1. Upgrade kits can be ordered here : http://h18006.www1.hp.com/products/storageworks/nas/upgradekits.html Do not forget to apply the latest Service Release before upgrading to R2.</p>			
P	T4424A	Windows Storage Server 2003 R2 Enterprise Edition upgrade (unlimited printer support)	1.213,00





HP ProLiant Storage Server NAS solutions

HP ProLiant Storage Server : Feature Extensions

HP ProLiant Storage Server iSCSI software

Until further notice, to use the iSCSI feature pack on Windows Storage Server R2, a separate patch must be downloaded from <http://h20293.www2.hp.com/portal/swdepot/displayProductsList.do?category=NAS>

*The HP StorageWorks iSCSI feature pack software adds iSCSI target functionality to HP ProLiant Storage Servers. The result is an affordable unified storage platform delivering file, print, and application storage services for Microsoft Exchange, Microsoft SQL servers and Oracle servers, all over existing Ethernet networks
Standalone version supported on ML110, ML350, ML370, DL100 & DL380 DAS versions (both SCSI/SATA)
Gateway edition supported on DL380 SAN version & DL580*

Base Software

P	T3669A	HP StorageWorks iSCSI standalone	1.579,00
P	T3670A	HP StorageWorks iSCSI GateWay	1.924,00
		<i>Software : both editions include media and documentation. 1 licence required per Storage Servers</i>	

Functionality Extensions

		<i>Software : adds snapshot functionality. Works with Exchange, SQL or Oracle, or Microsoft VSS</i>	
P	T3671A	HP StorageWorks iSCSI Target snapshot Standalone edition	2.081,00
P	T3672A	HP StorageWorks iSCSI Target snapshot Gateway edition	2.686,00
		<i>Software : adds direct backup functionality, facilitates zero impact backup with most popular backup applications.</i>	
P	T3674A	HP StorageWorks iSCSI Backup Enabler (Standalone version)	1.111,00
P	T3675A	HP StorageWorks iSCSI Backup Enabler (Gateway version)	1.111,00
		<i>Required to install host agents on additional Microsoft Windows iSCSI initiators with all editions of iSCSI Snapshots, iSCSI Direct Backup, and iSCSI Replication. (agents and an agent license for a single iSCSI initiator are included with iSCSI Snapshots, iSCSI Direct Backup, and iSCSI Replication SKUs at no charge)</i>	
P	T3696A	HP StorageWorks iSCSI Agents pack	1.085,00
		<i>Software : adds 2-node clustering target capability for MS CS</i>	
P	T3673A	HP StorageWorks iSCSI Target clustering GateWays edition	2.686,00
		<i>Software : Replicates application host's iSCSI disks, over IP, to Disaster Recovery site to guard against site failure.</i>	
P	T4257A	HP StorageWorks iSCSI Replication (Standalone version)	3.910,00
P	T4258A	HP StorageWorks iSCSI Replication (Gateway version)	5.063,00

Software Support Carepacks : 2 Hour Callback, 24x7, 3 year support

	UB982E	SW Support for iSCSI Feature pack (GateWay)	836,00
	UB988E	SW Support for iSCSI Clustering (GateWay)	1.137,00
	UB992E	SW Support for iSCSI Direct Backup (GateWay)	470,00
	UB986E	SW Support for iSCSI Snapshots (GateWay)	1.020,00
	UB980E	SW Support for iSCSI Feature pack (Standalone)	685,00
	UB984E	SW Support for iSCSI Snapshots (Standalone)	832,00
	UB990E	SW Support for iSCSI Direct Backup (Standalone)	376,00



StorageWorks - Nearline storage

DO NOT FORGET TO CHECK THE PROMO SECTION AT THE FRONT OF THE PRICELIST !

Tape Drives : DDS, (S)DLT, DLT I, LTO Technology

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

WARNING : ML 110 & ML150 only support DDS/DAT tape technology !

All DAT, DLT VS and LTO tape drives are shipped with a single server edition of HP Data Protector Express or Yosemite TapeWare XE backup software, and HP StorageWorks Library and Tape Tools diagnostics software.

LTO230, LTO460 & LTO960 also contain a license key for the download version of HP OpenView Data Protector single server edition



	PN	Description	REP (in €)
DAT Technology			
Universal HP StorageWorks USB tape drives : All ProLiant, third party servers and PC's supported !			
P	DW069A	internal DAT24 DDS-3 Tape Drive - Carbon (USB)	308,00
P	DW070A	External DAT24 DDS-3 Tape Drive - Carbon (USB)	385,00
P	DW022A	internal DAT40 DDS-4 Tape Drive - Carbon (USB)	385,00
P	DW023A	External DAT40 DDS-4 Tape Drive - Carbon (USB)	463,00
P	DW026A	internal DAT72 Tape Drive - Carbon (USB)	463,00
P	DW027A	External DAT72 Tape Drive - Carbon (USB)	540,00
Universal HP StorageWorks SCSI tape drives : All HP Servers (incl. ProLiant) & third party servers			
P	C5686C	DAT40 internal tape drive	424,00
P	C5687D	DAT40 external tape drive	501,00
P	Q1522B	DAT72 internal tape drive	501,00
P	Q1523B	DAT72 external tape drive	579,00
DLT VS Technology			
Universal versions (ProLiant, HP-UX, AlphaServer & Third Party servers)			
P	A7569B	HP StorageWorks DLT VS 160 Internal	1.022,00
P	A7571B	HP StorageWorks DLT VS 160 External WW	1.180,00
SDLT Technology			
Universal versions (ProLiant, HP-UX, AlphaServer & Third Party servers)			
P	A7518B	Internal 300/600GB SDLT Tape Drive - Carbon, LVD 68pin	3.386,00
P	A7520B	External 300/600GB SDLT Tape Drive - Carbon, LVD 68pin	3.613,00
LTO Ultrium Technology			
Half Height Versions			
P	DW064A	Internal LTO Ultrium 232 - 100/200 GB	1.197,00
P	DW065B	External LTO Ultrium 232 - 100/200 GB	1.351,00
P	DW016A	Internal LTO Ultrium 448 - 200/400 GB	1.390,00
P	DW017B	External LTO Ultrium 448 - 200/400 GB	1.544,00
P	DW085A	Internal LTO Ultrium 448 - 200/400 GB SAS connection	1.467,00
P	DW086A	External LTO Ultrium 448 - 200/400 GB SAS connection	1.622,00
P	EH841A	Internal LTO Ultrium 920 - 400/800 GB SCSI connection	2.317,00
P	EH842A	External LTO Ultrium 920 - 400/800 GB SCSI connection	2.472,00
Full Height Versions (requires 2 x 5 1/4 inch media bays)			
P	Q1518B	Internal LTO Ultrium 460 - 200/400 GB	2.085,00
P	Q1520B	External LTO Ultrium 460 - 200/400 GB	2.240,00
P	Q1538A	Internal LTO Ultrium 960 - 400-800GB	2.935,00
P	Q1539B	External LTO Ultrium 960 - 400-800GB	3.090,00
Full Height drives common options !			
		<i>Important : to be used when installing internal LTO230,460 & internal DLT/SDLT drives in ProLiant ML530 or ML570 servers.</i>	
P	AE333A	HP Fan kit for full height tape drives	24,00



StorageWorks - Nearline storage

HP Carepack services (for external drives only !)			
DAT24 USB only			
	UD064E	3 yr next business day onsite response - 9x5	194,00
	UD065E	3 yr 4 hour onsite response - 13x5	246,00
	UD066E	3 yr 4 hour onsite response - 24x7	310,00
all DDS, AIT, VS/DVD ROM, DLT VS80 , except DAT24			
	H3155E	3 yr next business day onsite response - 9x5	311,00
	H4616E	3 yr 4 hour onsite response - 13x5	406,00
	U2068E	3 yr 4 hour onsite response - 24x7	523,00
	U6358E	3 yr onsite repair within 6 hours of call - 24x7	1.024,00
all DLT/SLDT/LTO, except DLT VS80			
	H3157E	3 yr next business day onsite response - 9x5	848,00
	H4617E	3 yr 4 hour onsite response - 13x5	1.107,00
	H4622E	3 yr 4 hour onsite response - 24x7	1.428,00
	U6359E	3 yr onsite repair within 6 hours of call - 24x7	2.793,00
Tape Arrays and rackmount tape drives			

The HP StorageWorks Rack-mount Kits provide a high-density, rack-mountable tape drive enclosure for direct-attach SCSI backup and archiving applications. Because these enclosures use standard internal tape drives, they provide a cost-effective means of mounting tape drives in rack server environments. These enclosures provide customers with scalability, allowing the customer to add drives and migrate to new tape technologies as their capacity and performance needs grow. HP StorageWorks Rack-mount Kits are supported by ProLiant, HP Integrity, and AlphaServer platforms.



The HP StorageWorks Tape Array 5300 is a 3U rack enclosure that will hold two full-height array modules, four half-height modules, or one full-height and two half-height modules. The offline hot-swap array modules allow you to replace drives without taking down the server, and the optional upgrade kit provides a redundant hot-swap fan and power supply for even greater system availability. The Tape Array 5300 can be configured with four independent SCSI buses connected to four different servers or multiple drives can be daisy chained together through the same host bus adapter. The Tape Array 5300 supports DAT 24, DAT 40, DAT 72, Ultrium 215, Ultrium 230, Ultrium 460, and Ultrium 960 tape drives, plus a DVD-ROM or DVD+RW. The variety and interchangeability of array modules make the Tape Array 5300 a truly flexible solution for use in rack servers, especially in high-availability environments.

	PN	Description	REP (in €)
Pre-Configured Rackmount enclosures (with 1 drive pre-installed)			
P	DW028B	LTO448 , 1U Rackmount	1.699,00
P	EH903A	LTO920 , 1U Rackmount	2.626,00
P	Q1595B	LTO960, 3U Rackmount	3.322,00
Rackmount enclosures : base kits			
P	AE459A	1U Rackmount Kit, SAS. Watch out, only supports 1/2 height SAS tape drives.	347,00
P	A8007A	1U Rackmount Kit, USB. Watch out, only supports 1/2 height USB tape drives.	299,00
P	A7445B	1U Rackmount Kit, SCSI. Watch out, only supports 1/2 height tape drives.	342,00
P	274338-B22	3U Rackmount Kit, All	573,00
Rackmount enclosures : options			
P	DW063B	Ultra320 cable kit for installing Ultra320 drives(eg. LTO960) in a 3U or 5U enclosure	52,00
P	396114-B21	USB cable option Kit for 1U Rackmount Kit, . Converts the 1U SCSI kit to a USB kit	64,00
P	AE463A	SAS cable option Kit for 1U Rackmount Kit, . Converts the 1U SCSI kit to a SAS kit	58,00
P	AE464A	External SAS cable kit : 4m cable, needed to connect the 1U SAS kit to a server. 3-1 split : 3 hard drives, 1 external device	76,00
P	AE466A	External SAS cable kit : 2m cable, needed to connect the 1U SAS kit to a server. 3-1 split : 3 hard drives, 1 external device	76,00
P	AE468A	External SAS cable kit : 4m cable needed to connect the 1U SAS kit to a server with external SAS connections	58,00
Tape Array Enclosures			
P	C7508B	HP Surestore Tape Array 5300	734,00



StorageWorks - Nearline storage

Warm Swap modules for TA5300			
DVD+RW			
P	Q1592B	DVD+RW Array module (Carbon)	489,00
DDS technology			
P	C7497C	DDS4/DAT 40 GB Array module (carbon)	656,00
P	Q1524C	DAT 72 GB Array module (Carbon)	733,00
LTO Ultrium technology			
P	DW019A	Ultrium 448, Array Module (carbon) - Offline hot-swap tape drive	1.699,00
P	Q1540A	Ultrium 960, Array Module (carbon) - Offline hot-swap tape drive	3.244,00
Tape Arrays & rackmount kits: HP Carepack services			
4 bay rack (populated): tape array 5300, 3U			
	H4618E	3 yr 4 hour onsite response - 13x5	1.217,00
	H4623E	3 yr 4 hour onsite response - 24x7	1.570,00
	U6368E	3yr 6 hour on site repair (VTR) 24x7	3.072,00
1U rackmount, max. 2 HH drives			
	UB136E	3 yr next business day onsite response - 9x5	735,00
	UB135E	3 yr 4 hour onsite response - 13x5	960,00
	UB137E	3 yr 4 hour onsite response - 24x7	1.237,00
	UB138E	3yr 6 hour on site repair (VTR) 24x7	2.421,00
3U rackmount, max. 2 drives			
	U6335E	3 yr next business day onsite response - 9x5	1.697,00
	U6336E	3 yr 4 hour onsite response - 13x5	2.213,00
	U6337E	3 yr 4 hour onsite response - 24x7	2.855,00
	U9285E	3yr 6 hour on site repair (VTR) 24x7	5.586,00

Autoloaders

The HP StorageWorks Tape Autoloaders provides cost-effective, easy-to-install unattended backup. Equally at home in a datacenter rack or on a desk next to the office server, the HP StorageWorks Tape Autoloaders are equipped with either an Ultrium 460 drive, SDLT 320 drive, Ultrium 230 drive or a DLT VS80 drive and can house up to sixteen cartridges.

The Ultrium and SDLT versions are an ideal consolidated backup solution for multiple servers where high throughput and high capacity are required. For users who have less stringent capacity and throughput requirements, the DLT VS80 version is recommended. All models come with HP OpenView Storage Data Protector, Single Server Edition for Windows® 2000/NT®/2003/XP.

For entry level requirements, HP StorageWorks also offer a low-cost 6 cartridge DAT72 based autoloader.



	PN	Description	REP (in €)
HP StorageWorks DAT Autoloader family			
P	AE313A	HP StorageWorks DAT72 10 cassette Autoloader	1.699,00
HP StorageWorks 1/8 Autoloader family : do not forget to #ABB to the part number when ordering = power cord			
P	AF204A	HP StorageWorks LTO960 1/8 Autoloader	4.249,00
P	AF203A	HP StorageWorks LTO448 1/8 Autoloader	3.283,00
P	AF202A	HP StorageWorks LTO232 1/8 Autoloader	2.897,00
P	C9268R	Rackmount kit for 1/8 autoloader	245,00
Autoloaders : HP Carepack Extended Warranty & Installation services			
Autoloader (DAT & 1/8) installation services			
	U2090E	Installation Service Autoloaders, MSL 2024 SCSI	235,00
DAT72 autoloader warranty extensions			
	UE272E	3 yr next business day exchange response - 9x5	256,00
	UD848E	3 yr next business day onsite response - 9x5	809,00
	UD849E	3 yr 4 hour onsite response - 13x5	1.025,00
	UD850E	3 yr 4 hour onsite response - 24x7	1.295,00
1/8 autoloader warranty extensions			
	H4619E	3 yr next business day onsite response - 9x5	1.195,00
	H5526E	3 yr 4 hour onsite response - 13x5	1.513,00
	H4624E	3 yr 4 hour onsite response - 24x7	1.908,00
	U6367E	3 yr onsite repair within 6 hours of call - 24x7	3.588,00
Modular Scalable Libraries Series 2000/4000: LTO technology			



StorageWorks - Nearline storage

The HP StorageWorks MSL2000/4000 series Tape Libraries combines library features and up to 19,2 TB native capacity in a compact 2U or 4U form factor. The MSL2024 & 4048 offer the latest generation LTO tape drives; either with up to two Ultrium 960, or up to four Ultrium 448 tape drives. Additional tape drives can be installed later if backup needs change. Ideal for replicated systems, web-based management allows centralized management of many sites. The MSL2024 offers two 12-slot removable magazines, the MSL4048 four 12-slot magazines, both offer one mail slot and barcode reader for efficient media management. All MSL2024 & 4048 Tape Libraries and associated kits are RoHS compliant.



	PN	Description	REP (in €)
		How to order MSL2000/4000 Libraries : Order the base MSL units with your selection of tape drives, then add the required power cord. NEW : NATIVE FIBRE CHANNEL DRIVES. The lowest cost SAN backup on the market !	
MSL2024 base units			
P	AG115A	MSL2024 1 Ultrium 960 drive	6.954,00
P	AG116A	MSL2024 1 Ultrium 448 drive	5.794,00
P	AG117A	MSL2024 2 Ultrium 448 drive	8.499,00
P	AG326A	MSL2024 1 Ultrium 960 FC drive	9.658,00
P	AG326B	MSL2024 1 Ultrium 960 4Gb FC drive	9.658,00
MSL4048 base units			
P	AG320A	MSL4048 1 Ultrium 448 drive	6.954,00
P	AG321A	MSL4048 2 Ultrium 448 drive	10.044,00
P	AG322A	MSL4048 1 Ultrium 960 drive	8.113,00
P	AG323A	MSL4048 2 Ultrium 960 drive	13.522,00
P	AG324A	MSL4048 1 Ultrium 960 FC drive	11.204,00
P	AG325A	MSL4048 2 Ultrium 960 FC drive	17.385,00
P	AG324B	MSL4048 1 Ultrium 960 4Gb FC drive	11.204,00
P	AG325B	MSL4048 2 Ultrium 960 4Gb FC drive	17.385,00
MSL2024/4048 Options			
P	AG118A	LTO448 drive upgrade kit	3.489,00
P	AG327A	LTO960 drive upgrade kit	5.990,00
P	AG328A	LTO960 FC drive upgrade kit	8.423,00
P	AG328B	LTO960 4Gb FC drive upgrade kit	8.423,00
P	AG119A	MSL2024 Left magazine kit	258,00
P	AG330A	MSL4048 Left magazine kit	299,00
P	AG120A	MSL2024/4048 Right magazine kit	237,00
P	AG121A	MSL2024 Rack to tabletop conversion kit	325,00
P	AG329A	MSL4048 Rack to tabletop conversion kit	502,00
MSL2024/4048 Power cords			
	AD526A	Power Cord , European	13,00
MSL 2024 & 4048 HP Carepack Warranty extensions & Installation services			
MSL 2024 Series			
	U2090E	Installation Service Autoloaders, MSL 2024 SCSI	235,00
	UE293E	3 yr next business day parts exchange - warranty extension	554,00
	UE294E	3 yr next business day onsite response - 9x5	1.684,00
	UE295E	3 yr 4 hour onsite response - 13x5	2.131,00
	UE296E	3 yr 4 hour onsite response - 24x7	2.687,00
MSL4048 series			
	U4823E	Installation Service MSL4xxx SCSI	302,00
	UD833E	3 yr next business day parts exchange - warranty extension	2.751,00
	H4619E	3 yr next business day onsite response - 13x5	1.195,00
	UD834E	3 yr 4 hour onsite response - 13x5	4.364,00

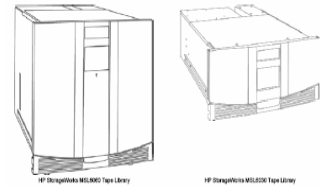


StorageWorks - Nearline storage

UD835E	3 yr 4 hour onsite response - 24x7	5.008,00
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Modular Scalable Libraries Series 6000: SDLT & LTO technology

The HP StorageWorks MSL Ultrium and SDLT tape library family provides performance and investment protection. Designed to maximize the performance of the Ultrium and SDLT drives, the MSL also provides unparalleled flexibility. The MSL series tape library can be scaled with other MSL libraries using a pass-through mechanism for up to 16 drives and 240/208 slots, allowing a single library to grow and change with capacity and technology needs. In addition, the MSL libraries are easily managed through an intuitive GUI control panel and integrated remote Web management.



	PN	Description	REP (in €)
		<i>How to order MSL6000 Libraries :</i> <i>Order the base MSL units WITHOUT tape drives, then add the required number of drives and options</i>	
MSL6000 SDLT base units , 0 drives installed			
P	AD581C	MSL6026 26 cartridge library, 0 drive, LVD, RackMount - Carbon for SDLT600 only	3.326,00
P	AD586B	MSL6052, 52 cartridge Library, 0 Drives, LVD, RackMount, VHDCI for SDLT 600 only	9.115,00
MSL6000 LTO base units , 0 drives installed			
P	AD597B	MSL6030, 0 drive, RM Library	3.327,00
P	AD602B	MSL6060, 0 drive, RM Library	8.276,00
Add the correct drive kits			
P	AD589B	MSL6000 SDLT600 Drive Upgrade	7.156,00
P	AD612B	MSL6000 Ultrium 960 Drive Upgrade	5.919,00
P	AD605B	MSL6000 Ultrium 460 Drive Upgrade	4.621,00
For Library extension beyond the base unit			
P	AG163A	MSL5000/6000, universal passthrough mechanism (includes elevator mechanism and router, required to connect first two units in a stack, and can handle both SDLT and LTO Ultrium media)	2.243,00
P	AG159A	MSL5000/6000, 5U passthrough extender (required one for each unit connected to the stack, for third and additional units)	361,00
P	AG160A	MSL5000/6000, 10U passthrough extender (required one for each unit connected to the stack, for third and additional units)	497,00



StorageWorks - Nearline storage

MSL Library accessories			
P	AD577A	HP StorageWorks Network Storage Router e1200-320 4Gb FC, Embedded Fibre Option Kit for MSL 5000/6000 (Includes router card (1FC x 2 LVD SCSI), 2 VHDCI-VHDCI SCSI cables, User Guide CD)	3.854,00
P	AG164A	MSL5000/6000 Rackmount Kit ALL (for HP E-series racks)	455,00
P	AD622B	MSL6000 Rackmount to Table Top Conversion Kit,5u	547,00
P	AD627B	MSL6000 Rackmount to Table Top Conversion Kit, 10U	779,00
P	AD620A	MSL6000 SDLT Universal Magazines	328,00
P	AD621A	MSL6000 Ultrium Universal Magazines	312,00
MSL Installation and startup services (Carepack boxed versions)			
MSL xx30 & MSL5026 libraries			
	U4823E	Installation and startup for storage (per event)	302,00
MSL xx60 & MSL5052 libraries			
	U4824E	Installation and startup for storage (per event)	758,00
MSL Library services & warranty extensions (Carepack boxed versions. Also covers tape drives and e1200-160 NSR)			
MSL xx30 & MSL5026 libraries			
	U2859E	3 yr next business day onsite response - 9x5	1.762,00
	U2860E	3 yr 4 hour onsite response - 13x5	3.231,00
	U2861E	3 yr 4 hour onsite response - 24x7	3.818,00
	U9287E	3 yr onsite repair within 6 hours of call - 24x7	5.685,00
MSL xx60 & MSL5052 libraries			
	U2862E	3 yr next business day onsite response - 9x5	3.507,00
	U2863E	3 yr 4 hour onsite response - 13x5	6.430,00
	U2864E	3 yr 4 hour onsite response - 24x7	7.599,00
	U9288E	3 yr onsite repair within 6 hours of call - 24x7	11.319,00



SAN Infrastructure Components

PN		Description	REP (in EUR) (Excl. VAT)
Fibre Channel & SCSI Adapters / Controllers			
Remark : for non-HP/non x-86 platforms, HBA information is in the Selective Enterprise Storage Pricelist			
4 Gb Fibre Channel HBA			
ProLiant and Integrity Servers			
P	AE311A	HP FC1142SR 4Gbit Single Channel PCI-express HBA for Windows 2000 & 2003 32-bit & Linux (Q)	820,00
P	AE312A	HP FC1242SR Dual Channel 4Gbit PCI-express HBA for Windows 2000 & 2003 32-bit & Linux (Q)	1.206,00
P	A8002A	HP FC2142SR 4Gbit Single Channel PCI-express HBA for Windows 2000 & 2003 32-bit and Linux (E)	820,00
P	A8003A	HP FC2242SR Dual Channel 4Gbit PCI-express HBA for Windows 2000 & 2003 32-bit and Linux (E)	1.206,00
ProLiant and Integrity Servers			
P	AD167A	HP FC2143SR 4Gbit Single Channel PCI-X 2.0 HBA for Windows 2000, 2003 32/64-bit & Linux (E)	820,00
P	AD168A	HP FC2243SR Dual Channel 4Gbit PCI-X 2.0 HBA for Windows 2000, 2003 32/64-bit & Linux (E)	1.206,00
P	AB429A	HP FC1143SR 4Gbit Single Channel PCI-X 2.0 HBA for Windows 2000,2003 32/64-bit & Linux (Q)	820,00
P	AE369A	HP FC1243SR Dual Channel 4Gbit PCI-X 2.0 HBA for Windows 2000,2003 32/64-bit & Linux (Q)	1.206,00
2 Gb Fibre Channel HBA			
Intel x86 based platforms			
P	281541-B21	HBA 2Gbit FCA-2214 PCI-X for Linux, Windows 2000&2003 32/64 bit & NetWare	1.260,00
P	321835-B21	HBA 2Gbit FCA-2214DC Dual Channel PCI-X For Windows2000, 2003, Linux and Netware	1.818,00
P	A7388A	HBA 2Gbit PCI-X for Windows 2000/2003 32/64 bit	1.105,00
P	A7387A	HBA 2Gbit Dual channel PCI-X for Windows 2000/2003 32 bit	1.739,00
SCSI HBA			
Ultra320 SCSI Host Bus Adapter			
P	374654-B21	Ultra320 Single channel SCSI Adapter - 64-Bit/133-MHz PCI-X	110,00

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

Price List

REP = Recommended End-User Price

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SAN Infrastructure Components

PN		Description	REP (in EUR) (Excl. VAT)
Fibre Channel Switches			
HP StorageWorks B-Series			
<p>Two switch configurations are offered : a base switch, with all the functionality needed to run a simple SAN, And a Power Pack Version. The Power pack software includes additional licenses for : ISL Trunking, Advanced Performance Monitor, Remote Switch, Extended Fabric and Fabric Watch Remark : 4Gbit 8 & 16 port switches no longer support Extended Fabric (even with Power pack)</p>			
4Gbit Switches for HP Bladesystems C-Series			
P	AE370A	Brocade BladeSystem 4/12 SAN Switch	4.635,00
P	AE371A	Brocade BladeSystem 4/24 SAN Swt Powr Pk	10.431,00
P	AE372A	Brocade BladeSystem 4/24 SAN Switch	7.340,00
P	AE373A	Brocade BladeSystem 4/12 SAN Swt Upg LTU	3.090,00
4Gbit Switches for HP Bladesystems P-Series			
P	A7533A	BladeSystem SAN Switch 4Gbit Base version (2 switch scaling limit, 2 SFP's included)	5.428,00
P	A7534A	BladeSystem SAN Switch 4Gbit Full Fabric version (2 SFP's included)	5.841,00
P	A7535A	BladeSystem SAN Switch 4Gbit Power Pack version (2 SFP's included)	8.276,00
4Gbit 8-16 port fabric switches			
P	A7984A	StorageWorks Base SAN Switch 4/8 (no SFP's included !) Standalone !	2.584,00
P	A8000A	StorageWorks SAN Switch 4/8 (no SFP's included !) Full Fabric	3.493,00
P	A7985A	StorageWorks SAN Switch 4/16 (no SFP's included !) Full fabric	6.257,00
P	A7987A	StorageWorks SAN Switch 4/16 (no SFP's included !) Power Pack	10.217,00
P	T4260A	StorageWorks 4/8 4-port Upgrade LTU	1.583,00
P	T4261A	StorageWorks 4/8 Full Fabric Upgrade LTU	1.742,00
4Gbit 32 port fabric switches			
P	A7537A	StorageWorks SAN Switch 4/32 Base version (16 active ports)	12.588,00
P	A7393A	StorageWorks SAN Switch 4/32 Full version (32 active ports)	23.568,00
P	A7394A	StorageWorks SAN Switch 4/32 Power Pack version (32 active ports)	32.841,00
P	T3677A	StorageWorks SAN Switch 4/32 8-port upgrade kit	6.182,00
4Gbit 64 port fabric switches			
P	AE495A	StorageWorks SAN Switch 4/64 Base version (32 active ports)	26.272,00
P	AG457A	StorageWorks SAN Switch 4/64 Full version (64 active ports)	48.681,00
P	AE496A	StorageWorks SAN Switch 4/64 Power Pack version (32 active ports)	33.226,00
P	T4411A	StorageWorks SAN Switch 4/64 16-port upgrade kit	13.522,00
8/16 port switches : software options			
P	T3573A	PowerPack SoftWare. Includes additional licenses for : ISL Trunking, Advanced Performance Monitor, Remote Switch, Extended Fabric and Fabric Watch	4.277,00
P	324504-B21	Fabric Watch	1.933,00
P	324505-B21	Extended Fabric	3.393,00
P	324506-B21	ISL Trunking	3.306,00
P	324507-B21	Advanced Performance Monitoring	2.088,00
32 & 64 port switches : software options			
P	313448-B21	PowerPack SoftWare for 32-port switch. Includes additional licenses for : ISL Trunking, Advanced Performance Monitor, Remote Switch, Extended Fabric and Fabric Watch	13.921,00
<p>N = New / P = Price Decrease / M = Price Increase / D = Discontinued and Available While Supply lasts</p>			Price List
<p>REP = Recommended End User Price</p>			4.785,00



SAN Infrastructure Components

PN		Description	REP (in EUR) (Excl. VAT)
P	313452-B21	ISL Trunking	6.090,00
P	313454-B21	Fabric Watch	4.349,00
P	313458-B21	Extended Fabric	4.785,00
P	332925-B21	Secure Fabric OS	6.303,00
B-Series Switches Management Software			
P	T4270A	HP Fabric Manager v. 5 Base Edition	13.861,00
P	T4269A	HP Fabric Manager v. 5 Enterprise Edition	21.781,00
P	T4271A	HP Fabric Manager v. 4 to v5 Base License Upgrade	7.406,00
P	T4272A	HP Fabric Manager v. 4 to v5 Enterprise License Upgrade	14.851,00
P	T4273A	HP Fabric Manager v5 Base to Enterprise License Upgrade	13.306,00
CarePacks for B series switches			
installation carepack for B-series 8 to 32 ports switches			
	U5988E	installation carepack	336,00
B-series 4/8			
	U5971E	3 yr next business day onsite response - 9x5	342,00
	U2088E	3 yr 4 hour onsite response - 13x5	626,00
	U2089E	3 yr 4 hour onsite response - 24x7	740,00
B-series 4/16			
	U5972E	3 yr next business day onsite response - 9x5	455,00
	H4620E	3 yr 4 hour onsite response - 13x5	834,00
	H4621E	3 yr 4 hour onsite response - 24x7	986,00
B-series 4/32 switches			
	UA258E	3 yr next business day onsite response - 9x5	1.712,00
	UA259E	3 yr 4 hour onsite response - 13x5	3.137,00
	UA260E	3 yr 4 hour onsite response - 24x7	3.709,00
B-series 4/32 switches with Power Pack (=Support Plus , incl. HW+SW support)			
	U5957E	3 yr Support Plus - 13x5	8.824,00
	U5958E	3 yr Support Plus - 24x7	11.119,00
B-series 4/64 switches : no fixed carepacks available. Only Flexcarepacks, to be configured and priced through SBW			
B-series C-class BladeSystem switches - PowerPack versions			
	UE728E	3 yr Support Plus - 9x5	834,00
	UE729E	3 yr Support Plus 24x7	986,00
B-series C-class BladeSystem switches - Base units			
	UE436E	3 yr next business day onsite response - 9x5	910,00
	UE437E	3 yr 4 hour onsite response - 13x5	1.668,00
	UE438E	3 yr 4 hour onsite response - 24x7	1.972,00
	UE439E	3 yr 6Hour Call-to-repair - 24x7	2.937,00
B-series P-class BladeSystem switches			
	UC007E	3 yr next business day onsite response - 9x5	455,00
	UC008E	3 yr 4 hour onsite response - 13x5	835,00
	UC009E	3 yr 4 hour onsite response - 24x7	986,00
HP StorageWorks M-Series			
Switches for HP Bladesystems			
P	A8001A	McDATA 4Gb SAN Switch	5.274,00
P	T4263A	McDATA SANtegrity Enh 4Gb SAN Switch LTU	1.523,00
CarePacks for M-series BladeSystem switches			
	UC007E	3 yr next business day onsite response - 9x5	455,00

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REP = Recommended End-User Price Price List



SAN Infrastructure Components

PN		Description	REP (in EUR) (Excl. VAT)
	UC008E	3 yr 4 hour onsite response - 13x5	835,00
	UC009E	3 yr 4 hour onsite response - 24x7	986,00
HP StorageWorks C-Series			
<i>MDS9020 : 20 port chassis, single power supply;power cord (configurable) fan, rack mount kit, documentation CDs, ESD,WRIST STRAP(DISPOSABLE), console cable kit and packaged documents.</i>			
Cisco MDS 9020 Switch			
P	AE377A	MDS 9020 20-port 4GBps FC	6.757,00
<i>MDS91xx : 20 or 40 port chassis, dual 300W power supplies, two power cords (configurable) dual fan trays rack mount kit, documentation CDs, ESD,WRIST STRAP(DISPOSABLE), console cable kit and packaged documents.</i>			
Cisco MDS 91xx Switch Family			
P	A7426A	MDS 9120 20-port 2GBps FC . Incl. 4 dedicated, 16 shared bandwidth ports	6.400,00
P	A7427A	MDS 9140 40-port 2GBps FC . Incl. 8 dedicated, 32 shared bandwidth ports	16.281,00
Cisco Transceivers (SFP's)			
P	AE379A	4Gb SFP-SW Transceiver Kit (4pcs)	552,00
P	AE380A	4Gb SFP-LW Transceiver Kit (10Km)	1.176,00
P	A7428A	2Gb SFP-SW Transceiver Kit	236,00
P	A7429A	2Gb SFP-LW Transceiver Kit (10Km)	971,00
Cisco Fabric Management Software			
P	A7512A	MDS 9100 Fab Mgr Server Lic for 1 Switch	7.001,00
P	A7515A	MDS 9100 Enterprise Package License	7.109,00
CarePacks for C series switches			
Installation for MDS 9020, 9120 & 9140			
	U5988E	installation carepack	336,00
MDS9020 Switch			
	UD569E	3 yr next business day onsite response - 9x5	751,00
	UD570E	3 yr 4 hour onsite response - 13x5	1.376,00
	UD571E	3 yr 4 hour onsite response - 24x7	1.627,00
MDS9120 Switch			
	U9276E	3 yr next business day onsite response - 9x5	2.002,00
	U9277E	3 yr 4 hour onsite response - 13x5	3.671,00
	U9278E	3 yr 4 hour onsite response - 24x7	4.338,00
MDS9140 Switch			
	U9279E	3 yr next business day onsite response - 9x5	2.503,00
	U9280E	3 yr 4 hour onsite response - 13x5	4.588,00
	U9281E	3 yr 4 hour onsite response - 24x7	5.423,00

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SAN Infrastructure Components

PN		Description	REP (in EUR) (Excl. VAT)
Storage Protocol Routers			
HP StorageWorks Multiprotocol router			
Targeted for the Enterprise and Mid-range customer, the MP router provides the ability to implement modular designs with increased SAN scalability, stability and rate of utilization on storage assets through subnet routing. The new routing services include: • FC-FC Subnet Routing Service for hierarchical SAN connectivity • FCIP Tunneling Service for SAN extension over distance • iSCSI Gateway Service			
400 MP Base Units			
P	AG458A	HP StorageWorks 400 MP router Basic (8-ports enabled)	23.529,00
P	AG459A	HP StorageWorks 400 MP router Full/Power pack version (16-ports enabled)	26.272,00
P	T4425A	HP StorageWorks 400 MP FCIP enabler license	10.522,00
P	T4426A	HP StorageWorks 400 MP router upgrade to full/power pack	8.756,00
Fibre Channel transceivers, Fibre Channel and SCSI cables			
Fibre Channel transceivers for B-series and M-Series switches			
Fibre Channel Transceivers 4Gb			
P	A7446B	4Gb SFP-SW Transceiver Kit for B-series 4Gbit switches	126,00
P	AE493A	4Gb 10Km Long-Distance Optical Transceiver Kit for B-series switches	1.120,00
Fibre Channel Transceivers 2Gb			
P	A6515A	2Gb SFP-SW Transceiver Kit	132,00
P	A6516A	2Gb 10Km Long-Distance Optical Transceiver Kit	465,00
P	300836-B21	35Km Long-Distance Optical Transceiver Kit	1.275,00
Fibre Channel Cables			
Cables 1Gb			
P	234457-B22	FC short wave 5m. multi-mode cable 50micron	106,00
P	234457-B23	FC short wave 15m. multi-mode cable 50micron	161,00
P	234457-B24	FC short wave 30m. multi-mode cable 50micron	320,00
P	234457-B25	FC short wave 50m. multi-mode cable 50micron	383,00
Cables 1Gb <-> 2Gb			
P	221691-B21	FC LC/SC 2m multi-mode cable	68,00
P	221691-B22	FC LC/SC 5m multi-mode cable	71,00
P	221691-B23	FC LC/SC 15m multi-mode cable	127,00
P	221691-B26	FC LC/SC 30m SW cable	117,00
P	221691-B27	FC LC/SC 50m SW cable	166,00
Cables 2 & 4Gb			
P	221692-B21	2M FC LC/LC Cable	66,00
P	221692-B22	5M FC LC/LC Cable	71,00
P	221692-B23	15 M FC LC/LC cable	90,00
P	221692-B26	30 M FC LC/LC cable	117,00
SCSI Cables			
	400982-002	SCSI cable, VHDCI / VHDCI, 2m	131,00
P	341174-B21	SCSI cable, VHDCI / VHDCI, 2m	49,00
	400983-005	SCSI cable, VHDCI / VHDCI, 5m	164,00
P	341175-B21	SCSI cable, VHDCI / VHDCI, 5m	81,00
P	341176-B21	SCSI cable, VHDCI / WIDE 68pin, 2m (diff SCSI compatible)	49,00
P	341177-B21	SCSI cable, VHDCI / WIDE 68pin, 5m (diff SCSI compatible)	74,00
	328215-001	SCSI Cable Differential WIDE / WIDE 68pin (for TL 89x Library), 5m	62,00
	328215-002	SCSI Cable Differential WIDE / WIDE 68pin (for TL 89x Library), 10m	87,00
	328215-003	SCSI Cable Differential WIDE / WIDE 68pin (for TL 89x Library), 15m	112,00
	328215-004	SCSI Cable Differential WIDE / WIDE 68pin (for TL 89x Library), 20m	138,00

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OpenView Storage Software

	PN	Description	REP (in EUR) (Excl. VAT)
hp OpenView Data Protector Express Backup Solutions			
		<p>HP StorageWorks Data Protector Express is easy to install, easy to use and easy to manage backup and recovery software suitable for organizations without dedicated IT or disaster recovery staff. In Windows, Linux and NetWare environments it provides protection for networked file servers, application servers and desktop machines. Data Protector Express supports backup to disk, tape and CD/DVD media. Features such as parallel data streams, D2D2Any backup and Bare Metal Disaster Recovery minimize backup and /or recovery times.</p> <p>NOTE: Please note that there are multiple editions of the product (e.g. a Single Server Edition) and not all features might be present in a specific edition.</p>	
	PN	Description	REP (in €)
Microsoft Small Business Server version			
		This version is limited for use on Microsofts Small Business Server, it comes with an MS Exchange Agent, MS SQL Server agent and Bare Metal Disaster Recovery option.	
	BB118AA	DP Express Backup SBS license	730,00
	BB118AC	DP Express Backup SBS license Competitive upgrade	648,00
Base License : central management server + media server. Supports Windows, Linux and NetWare			
	BB117AA	HP Data Protector Exp Backup server license STANDARD FULL	648,00
	BB117AT	HP Data Protector Exp Backup server license upgrade from Single Server Tape edition	480,00
	BB117AP	HP Data Protector Exp Backup server license Upgrade from Single Server ProLiant Edition	521,00
	BB117AC	HP Data Protector Exp Backup server license Upgrade from Competitor product	557,00
Client Licenses (used for backup of file servers)			
	BB121AA	HP Data Protector Exp Client Backup Agnt LTU	230,00
	BB122AA	HP Data Protector Exp Client Backup Agent 3pack LTU	562,00
	BB121AC	HP Data Protector Exp Client Backup Agnt Upgrade from Competitor product LTU	189,00
	BB122AC	HP Data Protector Exp Client Backup Agnt Upgrade from Competitor product, 3pack LTU	521,00
Additional drivers , additional Media Servers (media server = server with backup device)			
	BB119AA	HP Data Protector Exp Media Server LTU	521,00
	BB120AA	HP Data Protector Exp Media Server 3pack LTU	1.296,00
	BB133AA	HP Data Protector Exp Add 1 Drive LTU	812,00
	BB133AC	HP Data Protectr Exp Add Drv Cmp Upg LTU	730,00
Application backup extensions			
	BB123AA	HP Data Protector Exp Exchange Bu LTU	812,00
	BB123AC	HP Data Protector Exp Exchange Cmp Upg LTU	730,00
	BB124AA	HP Data Prot Exp MS SQL online B-up LTU	812,00
	BB124AC	HP Data Protector Exp MS SQL Cmp Upg LTU	730,00
Bare Metal disaster recovery			
	BB128AA	HP Data Protector Exp Bare Metal D/R LTU	562,00
	BB128AC	HP Data Protr Exp Bare Metal Cmp Upg LTU	521,00
Disk based backup			
	BB131AA	HP Data Protector EXP D2D2Any 1TB LTU	730,00
	BB132AA	HP Data Protector Exp D2D2Any 3TB LTU	1.804,00
HP Carepack Software support : telephone support, unlimited nr. of calls, software update service; access to web-support tools			
	UD503E	3 years, 8x5; HP DPX Backup server	216,00
	UD506E	3 years, 8x5; HP DPX Small Business Server or DPX D2D2Any 1TB	249,00
	UD500E	3 years, 8x5; HP DPX Network Server Agent	99,00
	UD518E	3 years, 8x5; HP DPX Media Server, Bare Metal DR or backup agent (3 pack)	166,00
		Also for HP DPX upgrade from single server to Full backup server	
	UD512E	3 years, 8x5; HP DPX Media Server (3-pack)	431,00
	UD509E	3 years, 8x5; HP DPX Exchange/SQL Application Agents or Drive expansion	282,00
	UD504E	3 years, 24x7; HP DPX Backup server	298,00
	UD507E	3 years, 24x7; HP DPX Small Business Server or DPX D2D2Any 1TB	344,00
	UD501E	3 years, 24x7; HP DPX Network Server Agent	138,00
	UD519E	3 years, 24x7; HP DPX Media Server, Bare Metal DR or backup agent (3 pack)	229,00
		Also for HP DPX upgrade from single server to Full backup server	
	UD513E	3 years, 24x7; HP DPX Media Server (3-pack)	597,00
	UD510E	3 years, 24x7; HP DPX Exchange/SQL Application Agents or Drive expansion	390,00

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 HP OpenView Data Protector

Price List



OpenView Storage Software

	PN	Description	REP (in EUR) (Excl. VAT)
hp OpenView Data Protector. WINDOWS = OPEN ; UNIX = SELECTIVE			
Single Server licenses			
	B7030AA	License To Use, Media & Manuals for Windows	697,00
	B7030BA	License To use only for Windows	581,00
	B7031AA	Migration/Upgrade to Data Protector Starter Pack for Windows	697,00
	B7020DA	License To Use, Media & Manuals for Sun Solaris (not x86!)	3.021,00
	B7020CA	Licentst To use only for Sun Solaris (not x86!)	2.864,00
	B7021DA	Migration/Upgrade to Data Protector Starter Pack for Sun Solaris (not x86!)	4.316,00
	B7020AA	License To Use, Media & Manuals for HP-UX	3.021,00
	B7020BA	Licentst To use only for HP-UX	2.864,00
	B7021AA	Migration/Upgrade to Data Protector Starter Pack for HP-UX	4.316,00
Starter Packs			
	B6961AA	License To Use, Media & Manuals for Windows	1.512,00
	B6961BA	License To use only for Windows	1.360,00
	B6951AA	License To Use, Media & Manuals for HP-UX(not x86!)	7.120,00
	B6951DA	License To Use, Media & Manuals for Sun Solaris	7.120,00
	B6951CA	License To use only for Sun Solaris (not x86!)	7.105,00
	B6951BA	License To use only for HP-UX	6.960,00
	B6960MA	Media Only, Any Platform	166,00
	B6960LA	Manuals Only, Any Platform	415,00
Extra Backup drive extensions			
	B6963AA	License To Use for Windows, NetWare & Linux	1.080,00
	B6953AA	License To use for Sun Solaris, HP-UX, NAS devices and SAN based backup devices (Also for windows, Novell & Linux when the tape device is SAN attached)	4.720,00
Data Protector Functional Extensions			
	B6965BA	On-Line Backup LTU for Windows & Linux	1.592,00
	B6955BA	On-Line Backup LTU for Unix	8.400,00
	BA153AA	Open File Backup for 1 server (Windows)	809,00
	BA153BA	Open File Backup for 10 servers (Windows)	8.093,00
	BA154AA	Open File Backup for Windows Workstations	374,00
	BA155AA	Open File Backup for Enterprise Server (Windows + Novell)	1.241,00
	BA152AA	Open File Backup Media Kit	203,00
	B7038AA	OV Data Protector adv backup to disk LTU 1TB (target capacity)	2.360,00
	B6966AA	Manager Of Managers for Windows	1.592,00
	B6956AA	Manager Of Managers for Unix	6.208,00
	B6957BA	Tape Library 61-250 Slots LTU upgrade	11.587,00
	B6958BA	Tape Library Unlimited slots upgrade	24.103,00
	B6960EA	Manual for all functional extensions	415,00
Data Protector Storage Array specific Licenses			
	B7023CA	Zero downtime backup for HP XP or Compatible	9.720,00
	B7026CA	Instant Recovery for HP XP or Compatible	4.848,00
	B7027AA	Direct Backup for HP XP or Compatible	4.848,00
	B7025CA	Zero downtime backup for HP VA/EVA	4.848,00
	B7028AA	Instant Recovery for HP VA/EVA	2.360,00
	B7022BA	Direct Backup with NDMP LTU	3.472,00
Host Based Data Replication solutions			
hP OpenView Storage Mirroring			
<p><i>HP OpenView Storage Mirroring is an application that allows customers to provide a low cost storage mirroring solution, using a standard low-cost IP based LAN for transport. The software runs on all flavors of Windows OS, and is storage agnostic (so can also be used on non-HP storage)</i></p> <p><i>All of this without using expensive FC-IP or iSCSI equipment</i></p>			
<p><i>New : Virtual machine licenses, for use with VMWare or MS Virtual Server, 5 VM's per license supported!</i></p>			
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Virtual Machine licenses			



OpenView Storage Software

	PN	Description	REP (in EUR) (Excl. VAT)
	T4429A	HP OpenView Storage Mirroring Virtual Machine 5-VM license	7.996,00
Windows Storage Server versions			
	T3841AA	HP OpenView Storage Mirroring workgroup version 1 NAS server license	1.520,00
	T3842AA	HP OpenView Storage Mirroring workgroup version 10 NAS server license	14.440,00
Windows 2000/2003 server version			
	T3837AA	HP OpenView Storage Mirroring 1 server license	2.453,00
	T3838AA	HP OpenView Storage Mirroring 10 server license	23.302,00
Windows 2000/2003 advanced server version			
	T3839AA	HP OpenView Storage Mirroring 1 server license	4.476,00
	T3840AA	HP OpenView Storage Mirroring 10 server license	42.522,00

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OpenView Storage Software

	PN	Description	REP (in EUR) (Excl. VAT)
HP StorageWorks Virtual Replicator Software for NT / 2000 / 2003			
<p><i>Simplify storage management for Windows NT/2000 environments, delivering Storage Pooling/Virtualization and Snapshots.</i></p> <p><i>Virtual Replicator allows you to manage all the storage attached to your server into a single pool, dynamically allocating space where needed</i></p> <p><i>It also allows you to add high availability to a standard Windows NT or 2000 by providing snapshot/snapclone capability.</i></p> <p><i>Virtual Replicator is also storage agnostic, and can be used on whatever storage is visible to the server.</i></p>			
Base Kit, media and documentation			
P	T3591A	Virtual Replicator V4.1 Base Kit (Media & Documentation. Includes 1 year 8x5 support)	125,00
Licenses to use / server based			
P	T3593A	Virtual Replicator V4.1 (1 License)	5.039,00
P	T3598A	Virtual Replicator V4.1 (3 Licenses)	9.864,00
P	T3597A	Virtual Replicator V4.1 (5 Licenses)	14.718,00
P	T3594A	Virtual Replicator V4.1 (10 Licenses)	25.231,00
Upgrade Licenses & base upgrade kit (from previous versions)			
P	T3592A	Virtual Replicator V4.1 Upgrade Base Kit (Documentation/CD)	125,00
P	T3599A	Virtual Replicator V4.1 Upgrade (1 License)	1.512,00
P	T3603A	Virtual Replicator V4.1 Upgrade (3 Licenses)	4.416,00
P	T3604A	Virtual Replicator V4.1 Upgrade (5 Licenses)	2.959,00
P	T3600A	Virtual Replicator V4.1 Upgrade (10 Licenses)	7.569,00

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hp Legacy Online Storage

	PN	Description	REP (in EUR) (Excl. VAT)
DS Disk Shelves & Disk Drives			
DS 2120 SCSI Based disk shelves			
<i>High density, scaleable, cost-effective disk shelves. Support for Windows NT, Windows 2000, Sun Solaris, HP-UX, IBM AIX, Linux and NetWare</i>			
DS2120 Disk Shelves			
P	A7382AD	Disk System 2120 Desktop	674,00
P	A7382ED	Disk System 2120 Desktop - Empty Enclosure	674,00
P	A7382A	Disk System 2120 Field Rack	674,00
P	A7382AE	Disk System 2120 Field Rack - Empty Enclosure	674,00
P	A7382AZ	Disk System 2120 Factory racked	750,00
DS2120 Disk Shelf options			
P	A7531A	Pedestal Kit : convert rack version to desktop version	34,00
P	A7552A	Rail Kit Graphite for HP 10000-series/E-series racks	51,00
DS2xxx Hard Disks. 36GB 15 & 72GB 10K also for DS2100.			
P	A7527A	HP INT no S/W 36G 15K 80U4 HDD	683,00
P	A7528A	HP INT no S/W 73G 10K 80U4 HDD	903,00
P	A7529A	HP INT no S/W 73G 15K 80U4 HDD	1.119,00
P	A7530A	HP INT no S/W 146G 10K 80U4 HDD	1.279,00
P	A7383A	HP INT no S/W 146G 15K 80U4 HDD	1.519,00
P	A7384A	HP INT no S/W 300G 10K 80U4 HDD	1.599,00
SCSI cables for DS series disk shelves			
P	C2978B	0.5m HD to HD cable	75,00
P	C2911C	1m HD to HD cable	75,00
P	C2361B	1m VHDCI to HD cable	100,00
P	C2362B	2.5m VHDCI to HD cable	140,00
P	C2365B	5m VHDCI to HD cable	190,00
P	C2924C	2m HD to HD cable	105,00
P	C7521A	5m HD to HD cable	190,00
P	C2375A	2.5m VHDTS/HDTS Self Terminating SCIS cable for V-class	260,00
P	C2375A	5m VHDTS/HDTS Self Terminating SCIS cable for V-class	260,00
P	C2364A	SCSI Terminator LVD/SE HD 68-pin	75,00
P	C2370A	SCSI Terminator LVD/SE VHDTS 68-pin	75,00

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StorageWorks Optical Storage

	PN	Description	REP (in EUR) (Excl. VAT)
Optical Jukeboxes and drives based on UDO technology (30G per disc)			
HOP StorageWorks UDO Jukeboxes and drives			
<p>Providing long-term, cost-effective, archival storage is what the HP StorageWorks Optical Jukebox family of products delivers. These jukeboxes, with 30 GB Ultra Density Optical (UDO) drives, are able to provide a storage capacity to meet most any need. Starting with a standalone desktop box at 30 GB all the way up to the largest jukebox with 7.1 TB of capacity, these jukeboxes come with differing number of slots for disks as well as drives. Customers can purchase an entry-level unit and at a later time increase the capacity or the number of drives, providing investment protection. These products can help round out any corporations need for Information Lifecycle Management by providing archival portion for those records that are either less frequently accessed or need to be kept for regulatory or</p>			
<p>Starting May 15th, 2006 HP Stops selling Optical UDO or MO devices.</p> <p>for a limited time, customers will be able to purchase options for existing installations.</p> <p>New jukeboxes can no longer legally be sold after June 30th, 2006 as the RoHS legislations starts.</p>			
UDO library upgrade options			
D	AA998A	700ux Drive upgrade kit (additional drive)	2.376,00
D	AD500A	700ux to 1100ux capacity upgrade kit (upgrade to 38 slots)	2.648,00
D	AA996A	1000ux to 1900ux upgrade kit : 2 x UDO drives upgrade + capacity upgrade kit+ installation kit (cables, etc)	9.075,00
D	AA992A	3800ux capacity upgrade kit (also for 2200mx/1200ex, see below). Upgrades 3800ux to 7100ux. Requires additional drives (see next line)	18.955,00
D	AA993A	3800ux or 7100ux drive upgrade : 2 x UDO drives + installation kit (cables, etc)	4.924,00
SCSI cables HD68 to HD68			
D	C2911C	1m, multimode, male-to-male	75,00
D	C7521A	5m, multimode, male-to-male	190,00
D	C7522A	10m, multimode, male-to-male	215,00
SCSI cables HD68 to VHDCI			
D	C2362B	2.5m, multimode, male-to-male	140,00
D	C2365B	5m, multimode, male-to-male	190,00
D	C2363B	10m, multimode, male-to-male	260,00
Upgrade Kits for existing optical jukeboxes			
D	AA991A	120mx/660ex MO to UDO conversion kit. Includes drives+installation material	17.210,00
D	AA992A	2200mx/1200ex MO to UDO conversion kit. Require additional drives : AA993A	18.955,00
D	AA994A	300mx/160ex MO to UDO Conversion kit, includes drives + installation kit	7.949,00



hp Tape Media

	PN	Description
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HP Storage Supplies : for pricing please contact your Reseller / Distributor

Media and Storage Supplies

DAT technology

HP DAT Cartridges

	C8010A	HP dat 72 data cartridge,72GB
	C5706A	hp dds-1 data cartridge, 4GB
	C5707A	hp dds-2 data cartridge, 8GB
	C5708A	hp dds-3 data cartridge, 24GB
	C5718A	hp dds-4 data cartridge, 40GB
	C5709A	hp dds cleaning cartridge

HP DAT Supplies

	C1571A	hp dds autoloader magazine, no tapes
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AIT technology

HP AIT Cartridges

	Q1996A	hp AIT cleaning cartridge
	Q1997A	hp AIT-1 70GB data cartridge
	Q1998A	hp AIT-2 100GB data cartridge
	Q1999A	hp AIT-3 200GB data cartridge
	Q2005A	HP AIT bar code label pack

DLT & SDLT technology

HP DLT Tape Cartridges

	C5141A	hp dlt IIIXT data cartridge
	C5141F	hp dlt IV data cartridge, 40/70/80GB
	C7998A	hp dlt vs cleaning cartridge
	C5142A	hp dlt cleaning cartridge
	Q2004A	HP dlt IV bar code label pack

HP SDLT Tape Cartridges

	Q2020	hp SDLTtape data cartridge,300-600GB
	C7980A	hp SDLTtape data cartridge,220-320GB
	C7982A	hp SDLT cleaning cartridge
	Q2003A	HP sdlt 1 bar code label pack

Ultrium technology

Ultrium Tape Cartridges

	C7971A	hp ultrium 200GB data cartridge
	C7978A	hp ultrium universal cleaning cartridge
	C7972A	HP Ultrium 400GB Data Cartridge
	C7973A	HP Ultrium 800GB RW data cartridge
	C7973W	HP Ultrium 800GB WORM data cartridge
	Q2001A	HP ultrium 1 bar code label pack
	Q2002A	HP ultrium 2 bar code label pack

Optical Disk technology

Optical Disk (WORM, RW up to 9.1GB)

	92280T	hp 1.3GB rewritable optical disk,1024bps
	92290T	hp 1.3GB write-once optical disk,1024bps
	92279F	hp 2.3GB rewritable optical disk, 512bps
	92280F	hp 2.6GB rewritable optical disk,1024bps
	92290F	hp 2.6GB write-once optical disk,1024bps
	88147J	hp 5.2GB rewritable optical disk,2048bps
	88146J	hp 5.2GB write-once optical disk,2048bps
	C7986A	hp 8.6GB write-once optical disk,2048bps
	C7983A	hp 9.1GB rewritable optical disk,4096bps
	C7984A	hp 9.1GB write-once optical disk,4096bps

UDO Media

	Q2030A	HP UDO 30Gb Write-Once disk
	Q2031A	HP UDO 30Gb Rewritable disk

Travan Tape

Travan Data Cartridge

	C4429A	hp 5GB travan data cartridge
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N = New / P = Price Decrease / PP = Price Increase / D = Discontinued and Available While Supply lasts



invent

hp Tape Media

	PN	Description
	C4435A	hp 20GB travan data cartridge
	C4436A	hp 14GB travan data cartridge

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

REP = Recommended End-User Price