

## Subchapter 4.1—Interconnect and Fibre Channel

### 4.1.1—Interconnect

I/O interfaces are the crucial links that connect the computer system to its external peripheral devices, and connect two or more computer systems together. This subchapter provides ordering information for the HP e3000 Server mass storage input and output (I/O) interface adapters. Networking link adapters are covered in **Chapter 8**.

Hewlett Packard provides a variety of interface buses in its HP e3000 servers, including PCI and HP-PB (NIO). **Chapters 2 and 4** of the *HP e3000 Business Servers Configuration Guide* include tables of I/O adapters, interface busses, and servers. Refer to these tables to determine which products to order to match your configuration of server and interface bus.

For server support and configuration information, see the *HP e3000 Business Servers Configuration Guide*.

Mass storage adapters connect the computer system to mass storage devices such as disks, disk arrays, tapes and some printers.

#### Mass Storage SCSI Adapters

Description	Product #	Opt #	Price
<b>Single-port, PCI Ultra160 SCSI Adapter</b>	A6828A		
Factory Integrated		OD1	
Release Notes		AVN	
<b>Dual-port, PCI Ultra160 SCSI Adapter</b>	A6829A		
Factory Integrated		OD1	
Release Notes		AVN	
<b>Single-port, Ultra2 LVD/SE SCSI adapter (PCI bus)</b>	A5149A		
Factory integration		OD1	
Release notes		AVN	
<b>Dual-port, Ultra2 LVD/SE SCSI adapter (PCI bus)</b>	A5150A		
Factory integration		OD1	
Release notes		AVN	
<b>Dual-port, Ultra HVD SCSI adapter (PCI bus)</b>	A5159B		
Factory integration		OD1	
Release notes		AVN	
<i>Note: A5149A, A5150A, and A5159A/B do not include a terminator. See Configuration Guide.</i>			

#### Mass Storage Fibre Channel Adapters

Description	Product #	Opt #	Price
<b>PCI 2 GB/s Fibre Channel Adapter</b>	A6795A		
Factory Integrated		OD1	
Release Notes		AVN	

## 4.1.2—Fibre Channel Infrastructure

### HP SCSI-Fibre Channel Router

Description	Product #	Opt #	Price
HP SCSI-Fibre Channel Extender	A5814A		
Short-wave GBIC Module up to 500 meters		001	
HP SCSI-Fibre Channel Fabric Router		003	
Cable Connections: (These are only suitable for Short-wave GBIC)			
100-meter Fibre Channel Cable 50uM	A3736A		
50-meter Fibre Channel Cable 50uM	A3735A		
16-meter Fibre Channel Cable 50uM	A3531A		
2-meter Fibre Channel Cable 50uM	A3583A		
Rack Kit:			
19-inch Rackmount enclosure	A5842A		

### Fibre Channel for Information Storage Infrastructure Products

Description	Product #	Opt #	Price
• HP Brocade 8-Port Fibre Channel Switch (field installable)	A5625A		
• Power Supply for Brocade 2400 Switch	A5671A		
• 2-meter Fibre Channel cable	A3583A		
• 16-meter Fibre Channel cable	A3531A		
• 50-meter Fibre Channel cable	A3735A		
• 100-meter Fibre Channel cable	A3736A		
• SW GBIC	A5225A		
• HP Brocade 8-Port Fibre Channel Switch (factory integrated)	A5625AZ		
• Power Supply for Brocade 2400 Switch	A5671A		
• 2-meter Fibre Channel cable	A3583A		
• 16-meter Fibre Channel cable	A3531A		
• 50-meter Fibre Channel cable	A3735A		
• 100-meter Fibre Channel cable	A3736A		
• SW GBIC	A5225A		
• HP Brocade 16-Port Fibre Channel Switch (field installable)	A5624A		
• 2-meter Fibre Channel cable	A3583A		
• 16-meter Fibre Channel cable	A3531A		
• 50-meter Fibre Channel cable	A3735A		
• 100-meter Fibre Channel cable	A3736A		
• SW GBIC	A5225A		
• HP Brocade 16-Port Fibre Channel Switch (factory integrated)	A5624AZ		
• 2-meter Fibre Channel cable	A3583A		
• 16-meter Fibre Channel cable	A3531A		
• 50-meter Fibre Channel cable	A3735A		
• 100-meter Fibre Channel cable	A3736A		
• SW GBIC	A5225A		
• 2 Optical SW GBICs with one 50-meter optical cable	D6980A		
• 2 Optical SW GBICs with one 100-meter optical cable	D6981A		
• 2 Copper GBICs with one 3-meter copper cable	D6978A		
• 2 Copper GBICs with one 5-meter copper cable	D6979A		
• 2 Copper GBICs with one 10-meter copper cable	D7080A		



Fibre Channel for Information Storage Infrastructure Products (continued)

	Description	Product #	Opt #	Price
•	<b>Fibre Channel 1063 Mbps 10 port short-wave Hub</b> (standalone or field integrated)	A3724A		
	Rack Mount Kit for FC Hub		001	
	16-meter fibre cable		AFY	
	50-meter fibre cable		OZ5	
	100-meter fibre cable		OZ6	
•	<b>Fibre Channel 1063 Mbps 10 port short-wave Hub</b> (racked, factory integrated)	A3724AZ		
	16-meter fibre cable		AFY	
	50-meter fibre cable		OZ5	
	100-meter fibre cable		OZ6	



## **Subchapter 4.2—Datacommunications and Terminal Controller (DTC)**

The HP OpenView DTC Manager (D2355B) product is obsolete. HP is currently releasing host-based DTC management for the HP e3000 platform. Please contact your local customer support center for the versions of MPE/iX and the required patches on which OVDTCMGR functionality has been provided. It is HP's recommendation that customers migrate to HP e3000 host-based DTC management..

## Subchapter 4.3—HP PowerTrust UPS

**Notes:**

- *PowerTrust II-MR was discontinued on October 2, 2002.*
- *3.0 kVa PowerTrust II-LR (A1356A) was discontinued on November 1, 2003*

Description	Product #	Opt #	Price
<b>PowerTrust II-LR 1.4 kW/2.0 kVA UPS 120V</b>	A1353A		
<i>Includes; one battery pack, RS-232 DB-9f/DB-9m cable for UPS to host connection, power cord based on country code and all manuals</i>			
<i>PowerTrust II-LR UPSs require MPE/iX GR Patch MPELX33 for Releases 5.5, 6.0 and 6.5.</i>			
Factory racked		0D1	
Additional battery pack (maximum 4 additional battery packs for a total of 5)		001	
Field rack RBII		002	
Deskside kit		003	
Replace standard RS-232 cable with RS-232 DBP-DB-25 MDP MUX cable		25M	
Replace standard power cord with US 120V straight plug		011	
Replace standard power cord with 012 Japan 100V straight plug		012	
<b>PowerTrust II-LR 1.4 kW/2.0 kVA UPS, 230V</b>	A1354A		
<i>Includes; one battery pack, RS-232 DB-9f/DB-9m cable for UPS to host connection, power cord based on country code and all manuals</i>			
<i>PowerTrust II-LR UPSs require MPE/iX GR Patch MPELX33 for Releases 5.5, 6.0 and 6.5.</i>			
Factory racked		0D1	
Additional battery pack (maximum 4 additional battery packs for a total of 5)		001	
Field rack RBII		002	
Deskside kit		003	
Replace standard RS-232 cable with RS-232 DBP-DB-25 MDP MUX cable		25M	
Replace standard power cord with Central European 4.5m C19/CEE7		AWT	
Replace standard power cord with International 4.5m C19/IEC309 plug		AWU	
Replace standard power cord with International/European C19/unterminated		AW5	
<b>PowerTrust II-LR 2.1 kW/3.0 kVA UPS, 230V (Discontinued November 1, 2003)</b>	A1356A		
<i>Includes; one battery pack, RS-232 DB-9f/DB-9m cable for UPS to host connection, power cord based on country code and all manuals</i>			
<i>PowerTrust II-LR UPSs require MPE/iX GR Patch MPELX33 for Releases 5.5, 6.0 and 6.5.</i>			
Factory racked		0D1	
Additional battery pack (maximum 4 additional battery packs for a total of 5)		001	
Field rack RBII		002	
Deskside kit		003	
Replace standard RS-232 cable with RS-232 DBP-DB-25 MDP MUX cable		25M	
Replace standard power cord with Central European 4.5m C19/CEE7		AWT	
Replace standard power cord with International 4.5m C19/IEC309 plug		AWU	
Replace standard power cord with International/European C19/unterminated		AW5	
<b>PowerTrust II-LR Battery Pack</b>	A1357A		
Field rack RBII		002	
Deskside kit		003	
<b>RS-232 Extension Cable DB-9f/DB-9m</b>	A1358A		
<b>PowerTrust II-LR SNMP/WEB Card</b>	A1359A		
<b>PowerTrust II-LR Rack kit for Rosebowl I</b>	A1361A		
<b>PowerTrust II-LR Rack kit for Rosebowl II</b>	A1362A		
<b>PowerTrust II-LR Deskside kit</b>	A1363A		
<b>PowerTrust II-MR 4.0 kW/4.5 kVA UPS 230V</b>	A6583A		
<i>Includes; one battery pack, RS-232 DB-9f/DB-9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.</i>			
Factory Racked		0D1	
Additional Battery Pack Note: 3 additional battery packs for a max of 4		001	
Field rack for RBII		002	
Replace Standard RS-232 cable with RS-232 DB-9-DB-25 PCI MUX cable		004	
Replace Standard RS-232 cable with RS-232 DB-9-DB-25 MDP MUX cable		005	
Replace Standard RS-232 cable with RS-232 DB-9f-DB-9m for NT Servers cable		006	

Description	Product #	Opt #	Price
Input/output hardwired		007	
Power interface option, L6-30P plug line cord, with PDP-2,output, US/Japan		008	
Power interface option, input hardwired with PDP-2,output, US/Japan		011	
Power interface option, input hardwired with PDP-1 output,Europe		012	
Power interface option, IC309 30A plug, line cord, with PDP-1 output,Europe		013	
<b>PowerTrust II-MR 4.0 kW Battery Pack</b>	A6586A		
<b>PowerTrust II-MR 6.5 kW/9 kVA UPS 230V</b>	A6584A		
<i>Includes; one battery pack set, RS-232 DB-9f/DB-9m cable for UPS to host connection, power cord based on country code and all manuals. Must choose one Power interface option.</i>			
Factory Racked		0D1	
Additional Battery Pack Set(2 batteries/set) note: 3 additional battery packs for a max of 4		001	
Field rack for RBII		002	
Replace Standard RS-232 cable with RS-232 DB-9-DB-25 PCI MUX cable		004	
Replace Standard RS-232 cable with RS-232 DB-9-DB-25 MDP MUX cable		005	
Replace Standard RS-232 cable with RS-232 DB-9f-DB-9m for NT Servers cable		006	
Input/output hardwired		007	
Power interface option, L6-50P plug line cord, with PDP-2,output, US/Japan		009	
Power interface option, IC309 60A plug, line cord, with PDP-1 output,Europe		010	
Power interface option, input hardwired with PDP-2,output, US/Japan		011	
Power interface option, input hardwired with PDP-1 output,Europe		012	
Power interface option, IC309 60A plug, line cord, with PDP-2 output,US/Japan		014	
<b>PowerTrust II-MR 6.5 kW/8 kW Battery Pack Set (2 batteries/set)</b>	A6587A		
<b>SNMP Card Communication Kit</b>	A6593A		
<b>Contact Closure Card Kit with Cable</b> (direct connection w/native NT or remote status Connection)	A6597A		
<b>HP PowerTrust-compatible Power Distribution Strip for 1.6-meter cabinet</b>	A3085A		
<i>Choose one cord/connector option below</i>			
200-240V Universal; power cord and IEC 320-C20 connector for connection to HP PowerTrust UPS in the same cabinet. HP PowerTrust UPS must have 200-240V input power.		001	
200-240V U.S. power. Power cord for connection to HP PowerTrust UPS in a separate cabinet.		002	
200-240V European power.		003	
<b>HP PowerTrust-compatible Power Distribution Strip for 1.1-meter cabinet</b>	A3084A		
<i>Includes 100-240V Universal power cord and IEC 320-C20 connector for connection to UPS in the same rack.</i>			

## Subchapter 4.4—Cabinets and Accessories

	Description		Product#	Opt#	Price
1.0	<b>Rack System/E41 Quartz Gray 1.96-meter 19-inch cabinet (41 EIA units)</b>	[ ]	A4902A		
	Delete Cabinet Side Panels	[ ]		AXW	
	<i>Note: Side Panels can be deleted from orders when tie-together kits are used. Delete one set of side panels for each tie-together kit.</i>				
	Rear Door (Required – Max 1)	[ x ]	A5213AZ		
	Depth Extension Kit for Quartz Gray Rack System E/41 Cabinets, FACTORY Integrated	[ ]	A5543AZ		
	Depth Extension Kit for Quartz Gray Rack System E/41 FIELD Integration	[ ]	A5543A		
	Anti-tip feet	[ ]	A5540A		
1.1	<b>Rack System/E41 Graphite 1.96-meter 19-inch cabinet (41 EIA units)</b>	[ ]	A4902D		
	Delete Cabinet Side Panels	[ ]		AXW	
	<i>Note: Side Panels can be deleted from orders when tie-together kits are used. Delete one set of side panels for each tie-together kit.</i>				
	Rear Door (Required – Max 1)	[ x ]	A5213DZ		
	Depth Extension Kit for Graphite Rack System E/41 Cabinets, FACTORY Integrated	[ ]	A5543DZ		
	Depth Extension Kit for Graphite Rack System E/41 FIELD Integration	[ ]	A5543D		
	Anti-tip feet	[ ]	A5540D		
1.2	<b>Rack System/E33 Quartz Gray 1.6-meter 19-inch cabinet (33 EIA units)</b>	[ ]	A4901A		
	Delete Cabinet Side Panels	[ ]		AXW	
	<i>Note: Side Panels can be deleted from orders when tie-together kits are used. Delete one set of side panels for each tie-together kit.</i>				
	Rear Door (Required – Max 1)	[ x ]	A5213AZ		
	Depth Extension Kit for Quartz Gray Rack System E/33 Cabinets, FACTORY Integrated	[ ]	A5542AZ		
	Depth Extension Kit for Quartz Gray Rack System E/33 FIELD Integration	[ ]	A5542A		
	Anti-tip feet	[ ]	A5540A		
1.3	<b>Rack System/E33 Graphite 1.6-meter 19-inch cabinet (33 EIA units)</b>	[ ]	A4901D		
	Delete Cabinet Side Panels	[ ]		AXW	
	<i>Note: Side Panels can be deleted from orders when tie-together kits are used. Delete one set of side panels for each tie-together kit.</i>				
	Rear Door (Required – Max 1)	[ x ]	A5213DZ		
	Depth Extension Kit for Graphite Rack System E/33 Cabinets, FACTORY Integrated	[ ]	A5542DZ		
	Depth Extension Kit for Graphite Rack System E/33 FIELD Integration	[ ]	A5542D		
	Anti-tip feet	[ ]	A5540D		
1.4	<b>Rack System/E25 Quartz Gray 1.25-meter 19-inch cabinet (25 EIA units)</b>	[ ]	A4900A		
	Rear Door (Required – Max 1)	[ ]	A5211AZ		
	Depth Extension Kit for Quartz Gray Rack System E/25 Cabinets, FACTORY Integrated	[ ]	A5541AZ		
	Depth Extension Kit for Quartz Gray Rack System E/25 FIELD Integration	[ ]	A5541A		
	Anti-tip feet	[ ]	A5540A		
	Modular Power Distribution Unit (Max 6), 100-240VAC, 16amp, 7 C13, 1 C19 outlets	[ ]	A5137AZ		
	<i>Note: Max 2 PDUs can be strung together using Jumper cord A5N. Order an equal number of cord options and PDUs.</i>				
	<b>Power Cord Options</b>				
	100-120V North American power cord, 4.5 meters	[ ]		AW3	
	200-240VAC North American power cord, 4.5-meter, L6-20P plug	[ ]		AW4	
	200-240 VAC International power cord, 4.5-meter, unterminated	[ ]		AW5	
	120/240 VAC Universal power cord, 2.5-meter, C-19/C-20 plug	[ ]		A5N	
	240 VAC European, 4.5-meter power cord,CEE7/7 plug	[ ]		AWT	
	240 VAC European, 4.5-meter power cord, IEC309 plug	[ ]		AWU	
	240 VAC North American universal power cord, 4.5-meter, L6-30P plug	[ ]		A5F	
	240 VAC European UPS-PDU power cord, 4.5-meter, unterminated	[ ]		A5G	
	120/240 VAC Universal power cord, 4.0-meter, C-20 plug	[ ]		A5H	
	Israel-English localization , 4.5-meter power cord, SI-32 plug	[ ]		AKJ	
	China-English localization, 4.5-meter power cord, GB16C plug	[ ]		AKM	
	Modular Power Distribution Unit 200-240VAC, 30-amp, 8 C13, 2 C19 outlets (North America)	[ ]	A5499AZ	001	
	Modular Power Distribution Unit 200-240VAC, 30-amp, 8 C13, 2 C19 outlets (International)	[ ]	A5499AZ	002	
	16AA PDU with 6 C13, 2 C19 outlets	[ ]	E7671AZ		
	100-120V North American power cord, 4.5 meters	[ ]		AW3	

Description	Product#	Opt#	Price
200-240VAC North American power cord, 4.5-meter, L6-20P plug	[ ]	AW4	
200-240 VAC International power cord, 4.5-meter, unterminated	[ ]	AW5	
120/240 VAC Universal power cord, 2.5-meter, C-19/C-20 plug	[ ]	A5N	
240 VAC European, 4.5-meter power cord,CEE7/7 plug	[ ]	AWT	
240 VAC European, 4.5-meter power cord, IEC309 plug	[ ]	AWU	
240 VAC North American universal power cord, 4.5-meter, L6-30P plug	[ ]	A5F	
240 VAC European UPS-PDU power cord, 4.5-meter, unterminated	[ ]	A5G	
120/240 VAC Universal power cord, 4.0-meter, C-20 plug	[ ]	A5H	
Israel-English localization , 4.5-meter power cord, SI-32 plug	[ ]	AKJ	
China-English localization, 4.5-meter power cord, GB16C plug	[ ]	AKM	
Modular Power Distribution Unit 200-240VAC, 60-amp, 8 C19 outlets (North America)	[ ] E7683AZ		
Modular Power Distribution Unit 200-240VAC, 60-amp, 8 C19 outlets (International)	[ ] E7684AZ		
Modular Power Distribution Unit 200-240VAC, 80-amp, 8 C19 outlets (North America)	[ ] J4366AZ		
120/240 VAC Power Cord C13-C20 4.4 meters	[ ] A5567A		
120/240 VAC Power Cord C13-C14 4.4 meters	[ ] A5568A		

## Accessories

Product Number	Description
J1509A	Front door for Quartz Gray Rack System/E41
J1509D	Front door for Graphite Rack System/E41
J1510A	Front door for Quartz Gray Rack System/E33
J1510D	Front door for Graphite Rack System/E33
J1511A	Front door for Quartz Gray Rack System/E25
J1506A	HP side panel kit for Quartz Gray Rack System/E41
J1506D	HP side panel kit for Graphite Rack System/E41
J1507A	HP side panel kit for Quartz Gray Rack System/E33
J1507D	HP side panel kit for Graphite Rack System/E33
J1508A	HP side panel kit for Rack System/E25
J1514A	HP Filler Panels for Quartz Gray Rack System/E Quantity 6
J4387A	HP Filler Panels for Graphite Rack System/E Quantity 6
C2790A	14 kg (30 lbs.) Anti-tip Ballast
J1479B	54 kg (120 lbs.) Anti-tip Ballast kit for Slate Gray base frame
J1479D	54 kg (120 lbs.) Anti-tip Ballast kit for Metallic Graphite base frame
J1512A	HP Tie Kit for Quartz Gray Rack System/E41
J1512D	HP Tie Kit for Graphite Rack System/E41
J1513A	HP Tie Kit for Quartz Gray Rack System/E33
J1513D	HP Tie Kit for Graphite Rack System/E33
J1471A	HP 8U Vertical Extension Kit For Quartz Gray cabinet
J1511A	Front Door for E25: Perforated, lockable
J1521A	Lift Hooks for Rack System/E
J1526A	Universal shelf for Quartz Gray rack—sliding
J1526D	Universal shelf for Graphite rack—sliding
J1518A	Keyboard rackmount kit for Quartz Gray rack, retractable
J1518D	Keyboard rackmount kit for Graphite rack, retractable
J1519A	Monitor rackmount kit for Quartz Gray rack, retractable
J1519D	Monitor rackmount kit for Graphite rack, retractable
J1520A	Universal shelf for Quartz Gray rack—stationary
J1520D	Universal shelf for Graphite rack—stationary



## Subchapter 4.5—Disks

	Description	Product #	Opt #	Price
	36-GB 10K RPM HotPlug Ultra160 SCSI LP Disk for field add on to A-Class	A6742A	003	
	36-GB 15K RPM HotPlug Ultra160 SCSI LP Disk for field add on to A-Class	A6948A	003	
	73-GB 10K RPM HotPlug Ultra160 SCSI LP Disk for field add on to A-Class	A6804A	003	
	18-GB HotPlug Ultra160 SCSI LP Disk for field add on to N-Class	A6739A	003	
	36-GB HotPlug Ultra160 SCSI LP Disk for field add on to N-Class	A6740A	003	
	73-GB HotPlug Ultra160 SCSI LP Disk for field add on to N-Class	A6727A	003	

## Subchapter 4.6—Mass Storage

### Mass Storage Warranty\*

Product Family	U.S. Base Warranty
StorageWorks Disk System 2100	One-Year, enhanced parts only, return to HP
StorageWorks Disk System 2110	One-Year, Next Day Response, On-Site Support
StorageWorks Disk System 2300	Three-Year, Next Day Response, On-Site Support
Disk System mechanisms	One-Year, Next Day Response, On-Site Support
DLT (Standalone Only) and DDS Tape Drives	Two-Year Total Duration, with Year 1 Next-Day On-Site, Year 2 Unit Exchange
DLT (Library Only)	One-Year, Next Day Support
All Other Mass Storage Products	One-Year, 3 Day Response

\*Warranty May Differ Outside the U.S.

### HP StorageWorks Disk System 2100 (DS2100)

Description	Product #	Opt #	Price
Disk System 2100 field rack enclosure (Enterprise systems)	A5675A		
Disk System 2100 field rack enclosure with no disk integration (Enterprise systems)	A5675AE		
Disk System 2100 factory rack enclosure, (Enterprise systems)	A5675AZ		
Disk System 2100 desktop disk enclosure (Enterprise systems)	A5675AD		
Disk System 2100 desktop disk enclosure with no disk integration (Enterprise systems)	A5675ED		
36-GB 10K RPM LVD Ultra320 disk module add-on	A6571A		
36-GB 10K RPM LVD Ultra320 disk module installed into the A5675A field rack enclosure	A6571A	OD1	
73-GB 10K RPM LVD Ultra320 disk module add-on	A7285A		
73-GB 10K RPM LVD Ultra320 disk module installed into the A5675A field rack enclosure	A7285A	OD1	
18-GB 15K RPM LVD Ultra320 disk module add-on	A7328A		
18-GB 15K RPM LVD Ultra320 disk module installed into the A5675A field rack enclosure	A7328A	OD1	
36-GB 15K RPM LVD Ultra320 disk module add-on	A7329A		
36-GB 15K RPM LVD Ultra320 disk module installed into the A5675A field rack enclosure	A7329A	OD1	
HP System E/Rittal Racking Kit	A5679A		
HP Original Racking Kit	A5680A		
Two Post Carrier Grade Racking Kit	A6576A		
Four Post Carrier Grade Racking Kit	A6578A		
Deskside Pedestal Upgrade Kit for A5675AD	A6519A		
0.5-meter 68-pin HD to 68-pin HD SCSI Cable	C2978B		
1.0-meter 68-pin HD to 68-pin HD SCSI Cable	C2911C		
1.5-meter 68-pin HD to 68-pin HD SCSI Cable	C2979B		
2.5-meter 68-pin HD to 68-pin HD SCSI Cable	C2924C		
5.0-meter 68-pin HD to 68-pin HD SCSI Cable	C7521A		
1.0-meter VHDCI to 68-pin HD SCSI Cable	C2361B		
2.5-meter VHDCI to 68-pin HD SCSI Cable	C2362B		
5.0-meter VHDCI to 68-pin HD SCSI Cable	C2365B		

## HP StorageWorks Disk System 2110 (DS2110)

The DS2110 ships with U320 mechanisms, however it is only supported in U160 configurations. If you're using a U320 HBA, the host adapter must be re-configured during system boot. If you need additional information please contact your HP representative.

Description	Product #	Opt #	Price
Disk System 2110 (Field Rack)	A7381A		
Disk System 2110 (Field Rack – empty enclosure only, disk drives cannot be integrated)	A7381AE		
Disk System 2110 (Factory Rack)	A7381AZ		
Disk System 2110 (Desktop)	A7381AD		
Disk System 2110 (Desktop – empty enclosure only, disk drives cannot be integrated)	A7381AD		
<b>Accessories</b>			
36-GB 10K RPM Ultra320 SCSI	A6571A	OD1	
73-GB 10K RPM Ultra320 SCSI	A7285A	OD1	
73-GB 15K RPM Ultra320 SCSI	A7286A	OD1	
146-GB 10K RPM Ultra320 SCSI	A7287A	OD1	
18-GB 15K RPM Ultra320 SCSI	A7328A	OD1	
36-GB 15K RPM Ultra320 SCSI	A7329A	OD1	
HP System E/Rittal Rack Kit	A5679A		
HP Original Rack Kit	A5680A		
Two Post Carrier Grade Rack Kit	A6576A		
Four Post Carrier Grade Rack Kit	A6578A		
0.5-meter 68-pin HD to 68-pin HD SCSI Cable	C2978B		
1.0-meter 68-pin HD to 68-pin HD SCSI Cable	C2911C		
1.5-meter 68-pin HD to 68-pin HD SCSI Cable	C2979B		
2.5-meter 68-pin HD to 68-pin HD SCSI Cable	C2924C		
5.0-meter 68-pin HD to 68-pin HD SCSI Cable	C7521A		
1.0-meter VHDCI to 68-pin HD SCSI Cable	C2361B		
2.5-meter VHDCI to 68-pin HD SCSI Cable	C2362B		
5.0-meter VHDCI to 68-pin HD SCSI Cable	C2365B		
2.0-meter VHDS68/HDS68 LVD/SE Self-terminating cable for V-Class	C7541A		
5.0-meter VHDS68/HDS68 LVD/SE Self-terminating cable for V-Class	C7520A		
SCSI Terminator	C2364A		
Deskside Pedestal Upgrade Kit (for desktop model only)	A6519A		

**HP StorageWorks Disk System 2300 (DS2300)**

Description	Product #	Opt #	Price
Disk System 2300 field rack enclosure	A6490A		
Disk System 2300 field rack enclosure (empty enclosure for stocking – no drive integration)	A6490AE		
Disk System 2300 factory rack enclosure	A6490AZ		
Disk System 2300 deskside enclosure	A6490AD		
Disk System 2300 deskside enclosure (empty enclosure for stocking – no drive integration)	A6490ED		
Redundant controller for HP DS2300	A6491A		
Redundant controller for HP DS2300 installed in enclosure	A6491A	OD1	
36-GB 10K RPM LVD Ultra320 disk module	A6571A		
36-GB 10K RPM LVD Ultra320 disk module installed in enclosure	A6571A	OD1	
73-GB 10K RPM LVD Ultra320 disk module	A7285A		
73-GB 10K RPM LVD Ultra320 disk module installed in enclosure	A7285A	OD1	
73-GB 15K RPM LVD Ultra320 disk module	A7286A		
73-GB 15K RPM LVD Ultra320 disk module installed in enclosure	A7286A	OD1	
146-GB 10K RPM LVD Ultra320 disk module	A7287A		
146-GB 10K RPM LVD Ultra320 disk module installed in enclosure	A7287A	OD1	
18-GB 15K RPM LVD Ultra320 disk module	A7328A		
18-GB 15K RPM LVD Ultra320 disk module installed in enclosure	A7328A	OD1	
36-GB 15K RPM LVD Ultra320 disk module	A7329A		
36-GB 15K RPM LVD Ultra320 disk module installed in enclosure	A7329A	OD1	
HP System/E Rack Rail Kit	A6209A		
C278xx rackmount hardware kit	A6244A		
NT/Rittal Rack Rail Kit	A6496A		
3U 2-post Rack Rail Kit	A6498A		
SCSI Cable 2-meter VHDS68 M/M Multimode	C2373A		
SCSI Cable 2-meter VHDS68 M/M Multimode integrated into enclosure packaging	C2373A	OD1	
SCSI Cable 5-meter VHDS68 M/M Multimode	C2374A		
SCSI Cable 5-meter VHDS68 M/M Multimode integrated into enclosure packaging	C2374A	OD1	
SCSI Cable 10-meter VHDS68 M/M Multimode	C2375A		
SCSI Cable 10-meter VHDS68 M/M Multimode integrated into enclosure packaging	C2375A	OD1	
SCSI Cable 2.5-meter VHDS68/HDS68 M/M Multimode	C2362B		
SCSI Cable 2.5-meter VHDS68/HDS68 M/M Multimode integrated into enclosure packaging	C2362B	OD1	
SCSI Cable 5-meter VHDS68/HDS68 M/M Multimode	C2365B		
SCSI Cable 5-meter VHDS68/HDS68 M/M Multimode integrated into enclosure packaging	C2365B	OD1	
SCSI Cable 10-meter VHDS68/HDS68 M/M Multimode	C2363B		
SCSI Cable 10-meter VHDS68/HDS68 M/M Multimode integrated into enclosure packaging	C2363B	OD1	
SCSI Terminator LVD/SE VHDS68	C2370A		

## Subchapter 4.7—Disk Arrays

### HP StorageWorks Virtual Array 7410

#### Ordering Notes

1. Choose ordering methodology:
  - a. Field rackable pre-defined SKUs
  - b. Factory racked pre-defined SKUs
  - c. Field rackable “Build From Scratch”
  - d. Factory racked “Build From Scratch”
2. Choose appropriate base controller enclosure unit and base unit disks
3. Choose desired disk system enclosure unit and disks based on chosen ordering methodology
4. Minimum of 10 disks are required per VA7410 controller pair
5. Minimum of 4 drives of chosen capacity type per VA7410 controller pair
6. Minimum of 2 drives per DS2405 enclosure
7. All enterprise factory integrated products include appropriate disk filler panels

Description	Product #	Opt #	Price
<b>VA7410 Field Rackable Controller Enclosure with Dual Controllers</b>			
<b>VA7410 with Dual Controller 2048-MB Cache—order additional disk systems separately</b>	A6268A		
<i>Includes: VA Enclosure, (2) 2Gb/1Gb VA Cont Module Assy, (4) DIMM 1024 MB, User Guide, RS-232 Installation Guide, Documentation Map, (2) power cord,(2) power supplies, (2) fan modules, ESD Kit, CBL 9-9-pin, HP CommandView SDM, HP-UX Patch Alert Data Sheet</i>			
Enterprise Class 36-GB 10K RPM FC HDD (minimum 10 drives [any capacity] per array)	A6192A	OD1	
Enterprise Class 36-GB 15K RPM FC HDD (minimum 10 drives [any capacity] per array)	A6193A	OD1	
<i>If ordering quantity of 1000 or less</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD (minimum 10 drives [any capacity] per array)	A6194A	OD1	
73-GB 15K RPM FC HDD Module	A7288A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
146-GB 10K RPM FC HDD Module	A7289A	OD1	
<b>VA7410 with Dual Controller 1024-MB Cache—order additional disk systems separately</b>	A6267A		
<i>Includes: VA Enclosure, (2) 2Gb/1Gb VA Cont Module Assy, (2) DIMM 1024 MB, User Guide, RS-232 Installation Guide, Documentation Map, (2) power cord,(2) power supplies, (2) fan modules, ESD Kit, CBL 9-9-pin, HP CommandView SDM, HP-UX Patch Alert Data Sheet</i>			
Enterprise Class 36-GB 10K RPM FC HDD (minimum 10 drives [any capacity] per array)	A6192A	OD1	
Enterprise Class 36-GB 15K RPM FC HDD (minimum 10 drives [any capacity] per array)	A6193A	OD1	
<i>If ordering quantity of 1000 or less</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD (minimum 10 drives [any capacity] per array)	A6194A	OD1	
73-GB 15K RPM FC HDD Module	A7288A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
146-GB 10K RPM FC HDD Module	A7289A	OD1	
<b>VA7410 Factory Racked Controller Enclosure with Dual Controllers</b>			
<b>VA7410 with Dual Controller 2048-MB Cache—order additional disk systems separately</b>	A6268AZ		
<i>Includes: VA Enclosure, (2) 2Gb/1Gb VA Cont Module Assy, (4) DIMM 1024 MB, User Guide, RS-232 Installation Guide, Documentation Map, (2) power cord,(2) power supplies, (2) fan modules, ESD Kit, CBL 9-9-pin, HP CommandView SDM, HP-UX Patch Alert Data Sheet</i>			
Enterprise Class 36-GB 10K RPM FC HDD (minimum 10 drives [any capacity] per array)	A6192A	OD1	
Enterprise Class 36-GB 15K RPM FC HDD (minimum 10 drives [any capacity] per array)	A6193A	OD1	
<i>If ordering quantity of 1000 or less</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD (minimum 10 drives [any capacity] per array)	A6194A	OD1	
73-GB 15K RPM FC HDD Module	A7288A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
146-GB 10K RPM FC HDD Module	A7289A	OD1	
<b>VA7410 with Dual Controller 1024-MB Cache—order additional disk systems separately</b>	A6267AZ		
<i>Includes: VA Enclosure, (2) 2Gb/1Gb VA Cont Module Assy, (2) DIMM 1024 MB, User Guide, RS-232 Installation Guide, Documentation Map, (2) power cord,(2) power supplies, (2) fan modules, ESD Kit,</i>			

Description	Product #	Opt #	Price
<i>CBL 9-9-pin, HP CommandView SDM, HP-UX Patch Alert Data Sheet</i>			
Enterprise Class 36-GB 10K RPM FC HDD (minimum 10 drives [any capacity] per array)	A6192A	OD1	
Enterprise Class 36-GB 15K RPM FC HDD (minimum 10 drives [any capacity] per array)	A6193A	OD1	
<i>If ordering quantity of 1000 or less</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD (minimum 10 drives [any capacity] per array)	A6194A	OD1	
73-GB 15K RPM FC HDD Module	A7288A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
146-GB 10K RPM FC HDD Module	A7289A	OD1	
<b>Virtual Array Family Modules—Integrated Build From Scratch Field Rackable</b>			
<b>Virtual Array Enclosure- Field Rackable</b>	A6183A		
<i>Includes: VA Enclosure, User Guide, Installation Guide, Documentation Map, (2) power cord, HP CommandView SDM, HP-UX Patch Alert Data Sheet and disk filler panels</i>			
Virtual Array Processor 7410—two per enclosure required	A6218A	OD1	
512-MB Cache for Virtual Array Processor—one per Virtual Array Processor	A6186A	OD1	
1024-MB Cache for Virtual Array Processor—one per Virtual Array Processor	A6187B	OD1	
Enterprise Class 36-GB 10K RPM FC HDD—may mix capacity points	A6192A	OD1	
Enterprise Class 36-GB 15K RPM FC HDD (minimum 10 drives [any capacity] per array)	A6193A	OD1	
<i>If ordering quantity of 1000 or less</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD—may mix capacity points	A6194A	OD1	
73-GB 15K RPM FC HDD Module	A7288A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
146-GB 10K RPM FC HDD Module	A7289A	OD1	
<b>Virtual Array Family Modules—Integrated Build From Scratch Factory Racked</b>			
<b>Virtual Array Enclosure – Factory Racked</b>	A6183AZ		
<i>Includes: VA Enclosure, User Guide, Installation Guide, Documentation Map, (2) power cord, HP CommandView SDM, HP-UX Patch Alert Data Sheet and disk filler panels</i>			
Virtual Array Processor 7410—two per enclosure required	A6218A	OD1	
512-MB Cache for Virtual Array Processor—one per Virtual Array Processor	A6186A	OD1	
1024-MB Cache for Virtual Array Processor—one per Virtual Array Processor	A6187B	OD1	
Enterprise Class 36-GB 10K RPM FC HDD—may mix capacity points	A6192A	OD1	
Enterprise Class 36-GB 15K RPM FC HDD (minimum 2 per DS2405)	A6193A	OD1	
<i>If ordering quantity of 1000 or less</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD—may mix capacity points	A6194A	OD1	
73-GB 15K RPM FC HDD Module	A7288A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
146-GB 10K RPM FC HDD Module	A7289A	OD1	
<b>DS2405 Field Rackable Disk Enclosure with Dual Link Control Cards</b>			
<b>DS2405 Disk Enclosure</b>	A6250A		
<i>Includes: Disk Enclosure, Installation Guide, Disk Filler Assy and (2) power cord.</i>			
<i>Cables are NOT included and must be ordered separately.</i>			
<i>Mandatory option: Instructs VA customers to have HP14 or later firmware and Command View SDM version 1.04 or later.</i>			223
Enterprise Class 36-GB 10K RPM FC HDD (minimum 2 per DS2405)	A6192A	OD1	
Enterprise Class 36-GB 15K RPM FC HDD (minimum 2 per DS2405)	A6193A	OD1	
<i>If ordering quantity of 1000 or less</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD (minimum 2 per DS2405)	A6194A	OD1	
73-GB 15K RPM FC HDD Module	A7288A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
146-GB 10K RPM FC HDD Module	A7289A	OD1	
<b>DS2405 Factory Racked Disk Enclosure with Dual Link Control Cards</b>			
<b>DS2405 Disk Enclosure</b>	A6250AZ		
<i>Includes: Disk Enclosure, Installation Guide, Disk Filler Assy and (2) power cord.</i>			
<i>Cables are NOT included and must be ordered separately.</i>			
<i>Mandatory option: Instructs VA customers to have HP14 or later firmware and Command View SDM version 1.04 or later.</i>			223
Enterprise Class 36-GB 10K RPM FC HDD (minimum 2 per DS2405)	A6192A	OD1	

Description	Product #	Opt #	Price
Enterprise Class 36-GB 15K RPM FC HDD (minimum 2 per DS2405) <i>If ordering quantity of 1000 or less</i>	A6193A	OD1	
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD (minimum 2 per DS2405)	A6194A	OD1	
73-GB 15K RPM FC HDD Module	A7288A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
146-GB 10K RPM FC HDD Module	A7289A	OD1	

### Virtual Array Family Upgrade Products

Description	Product #	Opt #	Price
<b>Virtual Array Family Upgrade Products</b>			
<b>Virtual Array Enclosure—Field Rackable</b>	A6183A		
<i>Includes: VA Enclosure, User Guide, Installation Guide, Documentation Map, (2) power cord, HP CommandView SDM, HP-UX Patch Alert Data Sheet and no disk filler panels</i>			
<b>DS2405 Disk Enclosure</b>	A6250A		
<i>Includes: Disk Enclosure, Installation Guide, (2) power cord, no disk</i>			
<i>Cables are NOT included and must be ordered separately.</i>			
Virtual Array Processor 7410—two per enclosure required	A6218A		
512-MB Cache for Virtual Array Processor—one per Virtual Array Processor	A6186A		
1024-MB Cache for Virtual Array Processor—one per Virtual Array Processor	A6187B	OD1	
Enterprise Class 36-GB 10K RPM FC HDD—may mix capacity points	A6192A	OD1	
Enterprise Class 36-GB 15K RPM FC HDD—may mix capacity points	A6193A	OD1	
<i>If ordering quantity of 1000 or less</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD—may mix capacity points	A6194A	OD1	
73-GB 15K RPM FC HDD Module	A7288A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
146-GB 10K RPM FC HDD Module	A7289A	OD1	
<b>LC/LC Cables</b>			
FC Cable 2-meter LC Duplex 50/125 M/M Optical	C7524A		
FC Cable 16-meter LC 50/125 LC/LC M/M Optical	C7525A		
FC Cable 50-meter LC Duplex 50/125 M/M Optical	C7526A		
FC Cable 200-meter LC Duplex 50/125 M/M Optical	C7527A		
<b>LC/SC Adapter Cables</b>			
FC Cable 2-meter LC/SC Duplex 50/125 M/M Optical	C7529A		
FC Cable 16-meter LC/SC Duplex 50/125 M/M Optical	C7530A		
Fibre Channel SC F/F Couple Optical—for use with C7529A, C7530A	C7534A		
Fibre Channel Adapter Kit—Optical (includes the C7529A and C7534A)	C7540A		
<b>Rack Kit Accessories</b>			
System/E Rail Kit	A6209A		
C278xx Rackmount Hardware Kit for VA Family	A6244A		
NTRittal Rack Rail Kit	A6496A		
<b>Software</b>			
Command View SDM 1 Host LTU and Software Kit	T1086A		
Enterprise Integrations for Command View SDM	T1002A		
Secure Manager Virtual Array 50-GB LTU w/ SW Media Kit (required for enablement)	T1003A		
Secure Manager Virtual Array 500-GB LTU	T1004A		
Secure Manager Virtual Array 1-TB LTU	T1005A		
Secure Manager Virtual Array 5-TB LTU	T1006A		
Business Copy Virtual Array 50-GB LTU w/ SW Media Kit (required for enablement)	T1007A		
Business Copy Virtual Array 500-GB LTU	T1008A		
Business Copy Virtual Array 1-TB LTU	T1009A		
Business Copy Virtual Array 5-TB LTU	T1010A		
Auto Path Virtual Array Windows 2000 1-Host LTU w/ SW Media Kit (required for enablement)	T1011A		
Auto Path Virtual Array Windows 2000 1-Host LTU	T1012A		
Auto Path Virtual Array Windows 2000 5-Host LTU	T1013A		
Auto Path Virtual Array Windows NT 4.0 1-Host LTU w/ SW Media Kit (required for enablement)	T1039A		
Auto Path Virtual Array Windows NT 4.0 1-Host LTU	T1040A		
Auto Path Virtual Array Windows NT 4.0 5-Host LTU	T1041A		
Auto Path Virtual Array Red Hat Linux 1 Host LTU w/ SW Media Kit (required for enablement)	T1044A		

Description	Product #	Opt #	Price
Auto Path Virtual Array Red Hat Linux 1-Host LTU	T1045A		
Auto Path Virtual Array Red Hat Linux 5-Host LTU	T1046A		
Auto Path Virtual Array HP-UX 11.0/11.i 1-Host LTU w/ SW Media Kit (required for enablement)	T1060A		
Auto Path Virtual Array HP-UX 11.0/11.i 1-Host LTU	T1061A		
Auto Path Virtual Array HP-UX 11.0/11.i 5-Host LTU	T1062A		
Auto Path VA – Win Server 2003	T1070A		
AutoPath VA-Win Server 2003 1-Host LTU	T1071A		
AutoPath VA-Win Server 2003 5-Host LTU	T1072A		
Fast Recovery Solutions for MS Exchange 2000	B9550A		

## HP StorageWorks Virtual Array 7100 (VA7100) and 7110 (VA7110)

The VA7100 is not currently shipping. This information is presented here for reference purposes only.

### Ordering Notes

- Choose ordering methodology:
  - field-rackable pre-defined SKUs
  - factory-racked pre-defined SKUs
  - field-rackable “Build From Scratch”
  - factory-racked “Build From Scratch”
- Choose appropriate base controller enclosure unit and base unit disks
- Minimum of 4 disks are required per VA7100 or VA7110
- Maximum of 15 disks per VA7100 and a maximum of 45 disks per VA7110 (15 in array enclosure, 15 in each of two disk expansion enclosures)
- All enterprise factory integrated products include appropriate disk filler panels
- Commercial Channel specific products are no longer available. The VA Family has completed the “Universal Product Merge”
- Factory SKUs are no longer available for single controller or deskside units. Please see the following examples for how to order:

#### a.How to order a single controller VA7100 (with factory integration)

Count	Product Number	Option	Description
1	A6183A		Virtual Array Enclosure
1	A6188A		Virtual Array Processor – One minimum, two per enclosure max
1	A6188A	OD1	Factory Integration
1	A6186A		512 MB Cache for Virtual Array Processor – one per Virtual Array Processor
1	A6185A	OD1	Factory Integration
1	A6203A		SW GBIC for StorageWorks VA series – one per Virtual Array Processor
1	A6203A	OD1	Factory Integration
15	A6194A		Enterprise Class 73-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)
15	A6194A	OD1	Factory Integration

#### b.How to order a deskside VA7100 (with factory integration)

Count	Product Number	Option	Description
1	A6183AD		Virtual Array Enclosure
2	A6188A		Virtual Array Processor – One minimum, two per enclosure max
2	A6188A	OD1	Factory Integration
2	A6186A		512 MB Cache for Virtual Array Processor – one per Virtual Array Processor
2	A6185A	OD1	Factory Integration
2	A6203A		SW GBIC for StorageWorks VA series – one per Virtual Array Processor
2	A6203A	OD1	Factory Integration
15	A6194A		Enterprise Class 73-GB 10K RPM FC HDD (minimum 4 [any capacity] per array)
15	A6194A	OD1	Factory Integration

8. MPE/iX servers require a management workstation with the VA7000 array family
9. MPE/iX servers also require the HP SCSI-Fibre Channel Router (A5814A Option 003) for connection to SCSI hosts. Direct or switched Fibre Channel connection is supported with MPE/iX 7.5.

### HP StorageWorks Disk Array VA7100

Description	Product #	Opt #	Price
<b>VA7100 Field Rackable Controller Enclosure, with Dual Controllers</b>			
<b>VA7100 w/ Dual Controller 256-MB Cache</b>	A6261A		
Includes: VA Enclosure, (2) 2-Gb/1-Gb VA Cont Module Assy, (2) DIMM 256 MB, User Guide, RS-232 Installation Guide, Documentation Map, (2) power cord, (2) power supplies, (2) fan modules, ESD Kit, CBL 9-9 pin, HP CommandView SDM, HP-UX Patch Alert Data Sheet and 2 GBICS			
Enterprise Class 36-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6192A	0D1	
Enterprise Class 36-GB 15K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6193A	0D1	
<i>If ordering quantity of 1000 or less</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6194A	0D1	
73-GB 15K RPM FC HDD Module	A7288A	0D1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
<b>VA7100 w/ Dual Controller 512-MB Cache</b>	A6262A		
Includes: VA Enclosure, (2) 2-Gb/1-Gb VA Cont Module Assy, (2) DIMM 512 MB, User Guide, RS-232 Installation Guide, Documentation Map, (2) power cord, (2) power supplies, (2) fan modules, ESD Kit, CBL 9-9 pin, HP CommandView SDM, HP-UX Patch Alert Data Sheet and 2 GBICS			
Enterprise Class 36-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6192A	0D1	
Enterprise Class 36-GB 15K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6193A	0D1	
<i>If ordering quantity of 1000 or less</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6194A	0D1	
73-GB 15K RPM FC HDD Module	A7288A	0D1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
<b>VA7100 w/ Dual Controller 1024-MB Cache</b>	A6263A		
Includes: VA Enclosure, (2) 2Gb/1Gb VA Cont Module Assy, (4) DIMM 512 MB, User Guide, RS-232 Installation Guide, Documentation Map, (2) power cord, (2) power supplies, (2) fan modules, ESD Kit, CBL 9-9 pin, HP CommandView SDM, HP-UX Patch Alert Data Sheet and 2 GBICS			
Enterprise Class 36-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6192A	0D1	
Enterprise Class 36-GB 15K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6193A	0D1	
<i>If ordering quantity of 1000 or less</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6194A	0D1	
73-GB 15K RPM FC HDD Module	A7288A	0D1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
<b>VA7100 Factory Racked Controller Enclosure, w/ Dual Controllers</b>			
<b>VA7100 w/ Dual Controller 256-MB Cache</b>	A6261AZ		
Includes: VA Enclosure, (2) 2-Gb/1-Gb VA Cont Module Assy, (2) DIMM 256 MB, User Guide, RS-232 Installation Guide, Documentation Map, (2) power cord, (2) power supplies, (2) fan modules, ESD Kit, CBL 9-9 pin, HP CommandView SDM, HP-UX Patch Alert Data Sheet and 2 GBICS			
Enterprise Class 36-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6192A	0D1	
Enterprise Class 36-GB 15K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6193A	0D1	
<i>If ordering quantity of 1000 or less</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6194A	0D1	
73-GB 15K RPM FC HDD Module	A7288A	0D1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
<b>VA7100 w/ Dual Controller 512-MB Cache</b>	A6262AZ		
Includes: VA Enclosure, (2) 2-Gb/1-Gb VA Cont Module Assy, (2) DIMM 512 MB, User Guide, RS-232			

Description	Product #	Opt #	Price
Installation Guide, Documentation Map, (2) power cord, (2) power supplies, (2) fan modules, ESD Kit, CBL 9-9 pin, HP CommandView SDM, HP-UX Patch Alert Data Sheet and 2 GBICS			
Enterprise Class 36-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6192A	OD1	
Enterprise Class 36-GB 15K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6193A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6194A	OD1	
73-GB 15K RPM FC HDD Module	A7288A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
<b>VA7100 w/ Dual Controller 1024-MB Cache</b>	A6263AZ		
Includes: VA Enclosure, (2) 2-Gb/1-Gb VA Cont Module Assy, (4) DIMM 512 MB, User Guide, RS-232 Installation Guide, Documentation Map, (2) power cord, (2) power supplies, (2) fan modules, ESD Kit, CBL 9-9 pin, HP CommandView SDM, HP-UX Patch Alert Data Sheet and 2 GBICS			
Enterprise Class 36-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6192A	OD1	
Enterprise Class 36-GB 15K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6193A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6194A	OD1	
73-GB 15K RPM FC HDD Module	A7288A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
<b>Module Products</b>			
Virtual Array Enclosure	A6183A		
Virtual Array Enclosure – Deskside (VA7100 ONLY)	A6183AD		
Virtual Array Processor – One minimum, two per enclosure max	A6188A		
256-MB Cache for Virtual Array Processor – one per Virtual Array Processor	A6185A		
512-MB Cache for Virtual Array Processor – one per Virtual Array Processor	A6186A		
1024-MB Cache for Virtual Array Processor – one per Virtual Array Processor	A6187B		
Enterprise Class 36-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6192A	OD1	
Enterprise Class 36-GB 15K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6193A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
Enterprise Class 73-GB 10K RPM FC HDD (minimum 4 drives [any capacity] per array)	A6194A	OD1	
73-GB 15K RPM FC HDD Module	A7288A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
SW GBIC for StorageWorks VA series – one per Virtual Array Processor	A6203A		
<b>Rack Kit Accessories</b>			
NTRittal Rack Rail Kit	A6496A		
C278xx rackmount hardware kit	A6244A		
System/E Rack Rail Accessory Kit	A6209A		
<b>Cables and Accessories</b>			
Deskside Cabinet for Virtual Array Series	A6196A		
2-meter FC fibre optic cable	A3583A		
16 meter FC fibre optic cable	A3531A		
50-meter FC fibre optic cable	A3735A		
100-meter FC fibre optic cable	A3736A		
VAP/LCC filler panel	A6197A		
Disk Slot filler panel	A6198A		
<b>Software</b>			
Command View SDM 1-host LTU and SW KIT	T1086A		
Enterprise Management Smart Plug-ins for Command View SDM	T1002A		
Secure Manager Virtual Array 50-GB LTU w/SW Media Kit (required for enablement)	T1003A		
Secure Manager Virtual Array 500-GB LTU	T1004A		
Secure Manager Virtual Array 1-TB LTU	T1005A		
Business Copy Virtual Array 50-GB LTU w/SW Media Kit (required for enablement)	T1007A		
Business Copy Virtual Array 500-GB LTU	T1008A		
Business Copy Virtual Array 1-TB LTU	T1009A		



Description	Product #	Opt #	Price
Auto Path Virtual Array Windows 2000 1-host LTU w/SW Media Kit (required for enablement)	T1011A		
Auto Path Virtual Array Windows 2000 1-host LTU	T1012A		
Auto Path Virtual Array Windows 2000 5-host LTU	T1013A		
Auto Path Virtual Array Windows NT 4.0 1-host LTU w/SW Media Kit (required for enablement)	T1039A		
Auto Path Virtual Array Windows NT 4.0 1-host LTU	T1040A		
Auto Path Virtual Array Windows NT 4.0 5-host LTU	T1041A		
Auto Path Virtual Array HP-UX 11.0/11.i 1-host LTU w/SW Media Kit (required for enablement)	T1060A		
Auto Path Virtual Array HP-UX 11.0/11.i 1-host LTU	T1061A		
Auto Path Virtual Array HP-UX 11.0/11.i 5-host LTU	T1062A		

**HP StorageWorks Disk Array VA7110**

Description	Product #	Opt #	Price
<b>VA7110 Field RK SKU</b>			
Predefined SKU - VA7110 with Dual Controller, 1024-MB Cache (2×512-MB DIMM)	A7294A		
<i>If ordering quantity between 1 and 30</i>			
<i>If ordering quantity between 31 and 50</i>			
<i>If ordering quantity between 51 and 70</i>			
<i>If ordering quantity greater than 70</i>			
Predefined SKU - VA7110 with Dual Controller, 2048-MB Cache (2×1024-MB DIMM)	A7296A		
Field upgrade product. Select Virtual Array Controller (one or two) and cache and disk options separately (factory installed). Includes filler for controllers and disks. (Note that single controller configurations are not supported!)	A7293A	0D1	
Empty Enclosure	A6183AE		
Virtual Array Controller no memory installed (Note that single controller configurations are not supported!)	A7293A	0D1	
1×512-MB Cache for Virtual Array Controller, 1×512MB DIMM, StorageWorks VAP requires equal cache for both Controllers (if two are installed). Order 1 per installed VAP	A6186A	0D1	
1×1024-MB Cache for Virtual Array Controller, 1×1024-MB DIMM, StorageWorks VAP requires equal cache for both Controllers (if two are installed). Order 1 per installed VAP	A6187B	0D1	
36-GB 10K RPM FC HDD Module	A6192A	0D1	
36-GB 15K RPM FC HDD Module	A6193A	0D1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
73-GB 10K RPM FC HDD Module	A6194A	0D1	
73-GB 15K RPM FC HDD Module	A7288A	0D1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
146-GB 10K RPM FC HDD Module	A7289A	0D1	
Fiber Optic Cable 2-meter LC 50/125 M/M	C7524A	0D1	
Fiber Optic Cable 16-meter LC Duplex 50/125 M/M	C7525A	0D1	
Fiber Optic Cable 50-meter LC Duplex 50/125 M/M	C7526A	0D1	
Fiber Optic Cable 200-meter LC Duplex 50/125 M/M	C7527A	0D1	
2-meter FC Fiber Optic cable M/M duplex LC-SC	C7529A	0D1	
16-meter FC Fiber Optic cable M/M duplex LC-SC	C7530A	0D1	
FC Fiber Optic coupler F/F SC-SC	C7534A	0D1	
FC adapter kit (includes C7529A and C7534A)	C7540A	0D1	
<b>VA7110 Factory Rack</b>			
Predefined SKU - VA7110 with Dual Controller, 1024-MB Cache (2×512-MB DIMM)	A7294AZ		
<i>If ordering quantity of 1-30</i>			
<i>If ordering quantity between 31 and 50</i>			
<i>If ordering quantity between 51 and 70</i>			
<i>If ordering quantity greater than or equal to 71</i>			
Predefined SKU - VA7110 with Dual Controller, 2048-MB Cache (2×1024-MB DIMM)	A7296AZ		
Field upgrade product. Select Virtual Array Controller (one or two) and cache and disk options separately (factory installed). Field Installed. Includes enclosure assembly, user manual, and 2 power supplies, filler panels for controllers and disks.	A6183AZ	0D1	
1×512-MB Cache for Virtual Array Controller, 1×512MB DIMM, StorageWorks VAP requires equal cache for both Controllers (if two are installed). Order 1 per installed VAP	A6186A	0D1	

Description	Product #	Opt #	Price
1 × 1024-MB Cache for Virtual Array Controller, 1 × 1024-MB DIMM, StorageWorks VAP requires equal cache for both Controllers (if two are installed). Order 1 per installed VAP	A6187B	OD1	
36-GB 10K RPM FC HDD Module	A6192A	OD1	
36-GB 15K RPM FC HDD Module	A6193A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
73-GB 10K RPM FC HDD Module	A6194A	OD1	
73-GB 15K RPM FC HDD Module	A7288A	OD1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
146-GB 10K RPM FC HDD Module	A7289A	OD1	
Fiber Optic Cable 2-meter LC 50/125 M/M	C7524A	OD1	
Fiber Optic Cable 16-meter LC Duplex 50/125 M/M	C7525A	OD1	
Fiber Optic Cable 50-meter LC Duplex 50/125 M/M	C7526A	OD1	
Fiber Optic Cable 200-meter LC Duplex 50/125 M/M	C7527A	OD1	
2-meter FC Fiber Optic cable M/M duplex LC-SC	C7529A	OD1	
16-meter FC Fiber Optic cable M/M duplex LC-SC	C7530A	OD1	
<b>VA7110 Modules</b>			
Predefined SKU - VA7110 with Dual Controller, 2 GBICs, 1024-MB Cache (2 × 512-MB DIMM)	A7294AE		
<i>If ordering quantity between 1-30</i>			
<i>If ordering quantity between 31-50</i>			
<i>If ordering quantity between 51-70</i>			
<i>If ordering quantity greater than 70</i>			
Predefined SKU - VA7110 with Dual Controller, 2 GBICs, 2048-MB Cache (2 × 1024-MB DIMM)	A7296AE		
Empty Enclosure	A6183A		
Virtual Array Controller no memory installed	A7293AE		
(Note that single controller configurations are not supported!)			
1 × 512-MB Cache for Virtual Array Controller, 1 × 512MB DIMM, StorageWorks VAP requires equal cache for both Controllers (if two are installed). Order 1 per installed VAP	A6186A		
1 × 1024-MB Cache for Virtual Array Controller, 1 × 1024-MB DIMM, StorageWorks VAP requires equal cache for both Controllers (if two are installed). Order 1 per installed VAP	A6187B		
36-GB 10K RPM FC HDD Module	A6192A		
36-GB 15K RPM FC HDD Module	A6193A		
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
73-GB 10K RPM FC HDD Module	A6194A		
73-GB 15K RPM FC HDD Module	A7288A		
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
146-GB 10K RPM FC HDD Module	A7289A		
2-meter FC Fiber Optic cable M/M multimode SC-SC	A3583A		
16-meter FC Fiber Optic cable M/M multimode SC-SC	A3531A		
50-meter FC Fiber Optic cable M/M multimode SC-SC	A3735A		
100-meter FC Fiber Optic cable M/M multimode SC-SC	A3736A		
2-meter FC Fiber Optic cable M/M duplex LC-SC	C7529A		
16-meter FC Fiber Optic cable M/M duplex LC-SC	C7530A		
FC Fiber Optic coupler F/F SC-SC	C7534A		
FC adapter kit (includes C7529A and C7534A)	C7540A		
<b>VA7110 Rail Kits</b>			
System/E Rail Kit (RoseBowl 2)	A6209A		
NTRittal Rack rail kit	A6496A		
C278xx rackmount hardware kit	A6244A		
<b>Disk System Enclosure (DS2405) Hardware Ordering Information</b>			
<i>The DS2405 cannot be used with the VA7100. The DS2405 is not supported connected directly to a switch.</i>			
<b>DS2405 Disk Enclosure Field Rack</b>			
Disk System 2405 field rack enclosure (cables are not included and must be ordered separately)	A6250A		
Disk System 2405 field rack enclosure with no disk integration (cables are not included and must be ordered separately)	A6250AE		
36-GB 10K RPM Fibre Channel drive add-on	A6192A		



Description	Product #	Opt #	Price
36-GB 10K RPM Fibre Channel drive installed into the enclosure (must order min 2, max 15 per enclosure)	A6192A	0D1	
36-GB 15K RPM Fibre Channel drive add-on	A6193A		
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
36-GB 15K RPM Fibre Channel drive installed into the enclosure (must order min 2, max 15 per enclosure)	A6193A	0D1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
73-GB 10K RPM Fibre Channel drive add-on	A6194A		
73-GB 10K RPM Fibre Channel drive installed into the enclosure (must order min 2, max 15 per enclosure)	A6194A	0D1	
73-GB 15K RPM Fibre Channel drive add-on	A7288A		
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
73-GB 15K RPM Fibre Channel drive installed into the enclosure (must order min 2, max 15 per enclosure)	A7288A	0D1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
146-GB 10K RPM Fibre Channel drive add-on	A7289A		
146-GB 10K RPM Fibre Channel drive installed into the enclosure (must order min 2, max 15 per enclosure)	A7289A	0D1	
<b>DS2405 Disk Enclosure Factory Rack</b>			
Disk System 2405 factory rack enclosure (cables are not included and must be ordered separately)	A6250AZ		
36-GB 10K RPM Fibre Channel drive add-on	A6192A		
36-GB 10K RPM Fibre Channel drive installed into the enclosure (must order min 2, max 15 per enclosure)	A6192A	0D1	
36-GB 15K RPM Fibre Channel drive add-on	A6193A		
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
36-GB 15K RPM Fibre Channel drive installed into the enclosure (must order min 2, max 15 per enclosure)	A6193A	0D1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
73-GB 10K RPM Fibre Channel drive add-on	A6194A		
73-GB 10K RPM Fibre Channel drive installed into the enclosure (must order min 2, max 15 per enclosure)	A6194A	0D1	
73-GB 15K RPM Fibre Channel drive add-on	A7288A		
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
73-GB 15K RPM Fibre Channel drive installed into the enclosure (must order min 2, max 15 per enclosure)	A7288A	0D1	
<i>If ordering quantity between 1 and 1000</i>			
<i>If ordering quantity greater than or equal to 1001</i>			
146-GB 10K RPM Fibre Channel drive add-on	A7289A		
146-GB 10K RPM Fibre Channel drive installed into the (must order min 2, max 15 per enclosure)	A7289A	0D1	
<b>DS2405 Disk System Accessories</b>			
System/E Rail Kit	A6209A		
NTRittal Rack rail kit	A6496A		
C278xx rackmount hardware kit	A6244A		
2-meter Fibre Channel cable LC 50/125 M/M	C7524A		
16-meter Fibre Channel cable LC Duplex 50/125 M/M	C7525A		
50-meter Fibre Channel cable LC Duplex 50/125 M/M	C7526A		
200-meter Fibre Channel cable LC Duplex 50/125 M/M	C7527A		
2-meter Fibre Channel cable LC/SC 50/125 M/M	C7529A		
16-meter Fibre Channel cable LC/SC 50/125 M/M	C7530A		
Fiber optic adapter kit	C7540A		
Fiber optic coupler SC F/F	C7534A		
System/E rack rail kit	A6209A		
C278xx rackmount hardware kit	A6244A		
NTRittal rack rail kit	A6496A		
3U 2-post rail kit	A6498A		

## HP Surestore Disk Array XP128

	Description	Product #	Opt #	Price
1.0	<b>HP Disk Array XP128 SSP Solution</b> [ ]	A7875A		
1.1	<b>XP128 Disk Control Frame</b> (1 required per XP system). Must select one power option.			
	XP128 Disk Control Frame with 2 GB Cache, 512 MB Shared Memory, Redundant Power Supplies for CHIP pairs 1-3, HP microcode, HP Continuous Track XP, Modem and pcAnywhere. Does not include basic ACP pair.	[ ]	A7876A	
	XP128 Disk Control Frame			
	2-GB Cache Memory Module			
	512-MB Shared Memory Module			
	3-phase 60-Hz for XP128 [ ]	A7876A	001	
	Power Cable Kit for Three-phase (60-Hz)			
	AC Box for Three-phase			
	3-phase 50-Hz for XP128 [ ]	A7876A	002	
	Power Cable Kit for Three-phase (50-Hz)			
	AC Box for Three-phase			
	Single-phase 60-Hz for XP128 [ ]	A7876A	003	
	Power Cable Kit for Single-phase (60-Hz)			
	AC Box for Single-phase			
	Single-phase 50-Hz for XP128 [ ]	A7876A	004	
	Power Cable Kit for Single-phase (50-Hz)			
	AC Box for Single-phase			
1.2	<b>DKC Accessories</b> (Min 0, Max 1 of each)			
	XP1024/128 SVP High Reliability Support Kit [ ]	A7907A		
	XP1024/128 UPS Connection Kit (for single phase DKC only) [ ]	A7908A		
1.3	<b>Client-Host Interface Processor pairs</b> (Min 1, Max 3 if A7894A is not selected, Max 2 if A7894A is selected)			
	XP1024/128 8-port ExSA Channel Adapter Pair [ ]	A7909A		
	XP1024/128 8-port 1 Gb/sec FC/CA Adapter Pair [ ]	A7910A		
	XP1024/128 4-port 1-2Gb/sec Auto-sensing FC/CA CHIP Pair [ ]	A7911A		
	XP1024/128 8-port 1-2Gb/sec Auto-sensing FC/CA CHIP Pair [ ]	A7912A		
1.4	<b>Additional Nonvolatile Cache</b> (Min 0, Max 15) Max 32 GB Cache allowed including 2 GB Cache in base DKC configuration.			
	XP1024/128 2-GB Cache Memory Module [ ]	A7918A		
1.5	<b>Additional Shared Memory</b> (Min 0, Max 4) Max 2560 MB Shared Memory allowed including 512 MB Shared Memory in base DKC configuration.			
	XP1024/128 512-MB Shared Memory Module [ ]	A7921A		
1.6	<b>Array Control Processor pairs</b> (Min 1 for 1 DKA Model, Max 2 A7922A for 2 DKA Model) 2 DKA model requires Disk Path Expansion Kit A7894A and then Max 2 CHIP pairs allowed (Can not intermix high and std performance ACPs in same array).			
	XP1024/128 Array Control Processor (ACP) pair - High Performance [ ]	A7922A		
1.7	<b>Disk Port Switch Sets</b> (Min 0, Max 1) A7893A Disk Port Switch Set required if 16 or more Disk Array Groups are configured and Disk Path Expansion Kit A7894A is not configured. Disk Path Expansion Kit is required if 2 ACP pairs A7922A are configured for 2 DKA Model. Cannot configure A7893A and A7894A in the same array.			
	XP128 Additional Disk Port Switch Set [ ]	A7893A		
	XP128 Disk Path Expansion Kit [ ]	A7894A		
1.8	<b>Disk Array Groups</b> (Min 1 Max 31)			
	XP1024/128 36-GB 15K RPM, FC Array Group - 4 disks [ ]	A7928A		
	XP1024/128 73-GB 10K RPM, FC Array Group - 4 disks [ ]	A7929A		
1.9	<b>Spare Disk Drives</b> (Min 1, Max 4) Must configure 1 spare disk of equal capacity of Disk Array Group configured.			
	XP1024/128 36-GB 15K RPM, FC Spare Disk Drive [ ]	A7928S		
	XP1024/128 73-GB 10K RPM, FC Spare Disk Drive [ ]	A7929S		



## HP Surestore Disk Array XP1024

	Description	Product #	Opt #	Price
	XP1024 (K2) HW Structure			
1.0	<b>HP Disk Array XP1024 SSP Solution</b>	A7905A		
	XP1024 Disk Control Frame (1 required per XP system) Must select one power option.			
1.01	<b>XP1024 Disk Control Frame</b> with 4-GB Cache, 512 MB Shared memory, Redundant Power Supplies for CHIP pairs 1-2, FC Cable Set for DKU Frame position R1, Basic High Performance ACP pair, HP microcode, HP Continuous Track XP, Modem and pcAnywhere	A7906A		
	3-phase 60- or 50-Hz for XP1024	A7906A	001	
	Single-phase 60-Hz for XP1024	A7906A	003	
	Single-phase 50-Hz for XP1024	A7906A	004	
1.02	<b>DKC Accessories</b> (Min 0, Max 1 of each)			
	XP1024/128 SVP High Reliability Support Kit	A7907A		
	XP1024/128 UPS Connection Kit (for single phase DKC only)	A7908A		
1.03	<b>Client-Host Interface Processor pairs</b> (Min 1 pair, Max 4 pairs)			
	XP1024/128 8-port ExSA Channel Adapter Pair	A7909A		
	XP1024/128 8-port 1 Gb/sec FC/CA Adapter Pair	A7910A		
	XP1024/128 4-port 1-2 Gb/sec Auto-sensing FC/CA CHIP Pair	A7911A		
	XP1024/128 8-port 1-2 Gb/sec Auto-sensing FC/CA CHIP Pair	A7912A		
1.04	<b>Additional DKC Power Supply for CHIP pairs 3 and 4</b> (Min 0, Max 1)			
	XP1024 Additional CHIP Power Supply	A7917A		
1.05	<b>Additional Nonvolatile Cache</b> (Min 0, Max 30) Max 64 GB including 4 GB cache in base DKC A7919A configuration (Must configure DKC in increments of 4 GB and order Additional Cache Platform Board for performance configurations)			
	XP1024/128 2-GB Cache Memory Module	A7918A		
1.06	<b>Additional Cache Platform Board</b> (Min 0, Max 1) Required for all performance configurations or required for cache beyond 32 GB including 4 GB in base DKC.			
	XP1024 Cache Platform Board	A7919A		
1.07	<b>Additional Battery for Cache Memory</b> (Min 0, Max 1) <i>Required for all cache configurations beyond 32 GB including 4 GB in base DKC.</i>			
	XP1024 Additional Battery for Cache Memory	A7920A		
1.08	<b>Additional Shared Memory</b> (Min 0, Max 5) Max 3072 MB including 512 MB Shared Memory in base DKC configuration.			
	XP1024/128 512-MB Shared Memory Module	A7921A		
1.09	<b>Additional Array Control Processor</b> (Min 0, Max 3) One ACP pair provided in base DKC configuration			
	XP1024/128 Array Control Processor (ACP) pair- High Performance	A7922A		
1.10	<b>DKU Frame L1 Interconnect Cable.</b> (Min 0, Max 1) A7924A is required for DKU frame configured in L1 position. Cable set for DKU in position R1 is provided with base DKC and A7926A cable set is required for DKU for position R2 or L2.			
	XP1024 FC Cable Set for L1 DKU	A7924A		
1.11	<b>Disk Array Frame</b> (Min 1 position R1, Max 4) Must select one option and must match Power option of DKC, no intermixing of power options. FC Cable set for DKU in position R1 is provided with base DKC. FC Device Cable Set A7924A required for DKU position L1 and A7926A Cable Set required for R2 and L2 position.			
	XP1024 Disk Array Frame	A7925A		
	3-phase 60-Hz for XP1024 DKU	A7925A	001	
	3-phase 50-Hz, for XP1024 DKU	A7925A	002	
	Single-phase, 60-Hz, for XP1024 DKU	A7925A	003	
	Single-phase, 50-Hz, for XP1024 DKU	A7925A	004	
1.12	<b>DKU R2, L2 Frame Interconnect Cable.</b> (Min 0, Max 2) A7926A is required for DKU frame A7924A configured in R2 or L2 position. Cable set for DKU in position R1 is provided with base DKC and cable set is required for DKU for position L1.			
	XP1024 FC Cable Set for R2 and L2 DKU	A7926A		
1.13	<b>Disk Array Groups</b> (Min 1 Max 254) (Max 63 R1 and L1) (Max 64 R2 and L2)			
	XP1024/128 36-GB 15K RPM, FC Array Group - 4 disks	A7928A		
	XP1024/128 73-GB 10K RPM, FC Array Group - 4 disks	A7929A		
1.14	<b>Spare Disk Drives</b> (Min 1 per array group size, Max 4 for R1 DKU and 4 additional for L1 DKU)			
	XP1024/128 36-GB 15K RPM, FC Spare Disk Drive	A7928S		
	XP1024/128 73-GB 10K RPM, FC Spare Disk Drive	A7929S		

HP Surestore Disk Array XP128/XP1024 Upgrades

Description	Product #	Opt #	Price
<b>HP Disk Array XP128/1024 Upgrades SSP Solution</b>	A7873A		
<b>DKC Accessories</b> (Min 0, Max 1 of each)			
XP1024/128 SVP High Reliability Support Kit	A7907U		
XP1024/128 UPS Connection Kit (for single phase DKC only)	A7908U		
<b>Client-Host Interface Processor pairs</b> (Min 1 pair, Max 4 pair)			
XP1024/128 8-port ExSA Channel Adapter Pair	A7909U		
XP1024/128 8-port 1 Gb/sec FC/CA Adapter Pair	A7910U		
XP1024/128 4-port 1-2 Gb/sec Auto-sensing FC/CA CHIP Pair	A7911U		
XP1024/128 8-port 1-2 Gb/sec Auto-sensing FC/CA CHIP Pair	A7912U		
<b>Additional DKC Power Supply</b> for CHIP pairs 3 and 4 (Min 0, Max 1)			
XP1024 Additional CHIP Power Supply	A7917U		
<b>Additional Nonvolatile Cache</b> (Min 0, Max 30) Max 64 GB including 4 GB cache in base DKC A7919A configuration (Must configure DKC in increments of 4 GB and order Additional Cache Platform Board for performance configurations)			
XP1024/128 2-GB Cache Memory Module	A7918U		
<b>Additional Cache Platform Board</b> (Min 0, Max 1) Required for all performance configurations or required for cache beyond 32 GB including 4 GB in base DKC.			
XP1024 Cache Platform Board	A7919U		
<b>Additional Battery for Cache Memory</b> (Min 0, Max 1) Required for all cache configurations beyond 32 GB including 4 GB in base DKC.			
XP1024 Additional Battery for Cache Memory	A7920U		
<b>Additional Shared Memory</b> (Min 0, Max 5) Max 3072 MB including 512 MB Shared Memory in base DKC configuration.			
XP1024/128 512-MB Shared Memory Module	A7921U		
<b>Additional Array Control Processor</b> (Min 0, Max 3) One ACP pair provided in base DKC configuration.			
XP1024/128 Array Control Processor (ACP) pair- High Performance	A7922U		
<b>Disk Array Frame</b> (Min 1 position R1, Max 4) Must select one option and must match Power option of DKC, no intermixing of power options. FC Cable set for DKU in position R1 is provided with base R2 DKC. FC Device Cable Set A7924A required for DKU position L1 and A7926A Cable Set required for and L2 position.			
XP1024 Disk Array Frame	A7925U		
3-phase 60-Hz for XP1024 DKU	A7925U	001	
3-phase 50-Hz, for XP1024 DKU	A7925U	002	
Single-phase, 60-Hz, for XP1024 DKU	A7925U	003	
Single-phase, 50-Hz, for XP1024 DKU	A7925U	004	
<b>DKU Frame L1 Interconnect Cable.</b> (Min 0, Max 1) A7924A is required for DKU frame configured in L1 position. Cable set for DKU in position R1 is provided with base DKC and A7926A cable set is required for DKU for position R2 or L2.			
XP1024 FC Cable Set for L1 DKU	A7924U		
<b>DKU R2, L2 Frame Interconnect Cable.</b> (Min 0, Max 2) A7926A is required for DKU frame configured in R2 or L2 position. Cable set for DKU in position R1 is provided with base DKC and A7924A cable set is required for DKU for position L1.			
XP1024 FC Cable Set for R2 and L2 DKU	A7926U		
<b>Disk Array Groups</b> (Min 1 Max 254) (Max 63 R1 and L1) (Max 64 R2 and L2)			
XP1024/128 36-GB 15K RPM, FC Array Group - 4 disks	A7928U		
XP1024/128 73-GB 10K RPM, FC Array Group - 4 disks	A7929U		
<b>Spare Disk Drives</b> (Min 1 per array group size, Max 4 for R1 DKU and 4 additional for L1 DKU)			
XP1024/128 36-GB 15K RPM, FC Spare Disk Drive	A7928SU		
XP1024/128 73-GB 10K RPM, FC Spare Disk Drive	A7929SU		

### HP Surestore Disk Array XP128/XP1024 Software

Description	Product #	Opt #	Price
All LTU products for initial purchase or upgrade			
<b>Command View XP</b>			
<b>Command View XP for XP1024/XP128</b> (LTU on one management console) [ ]	B9357AD		
<b>LUN Configuration and Security Manager XP</b>			
This Software Title orderable only on the XP1024 and XP128			
<b>LUN Configuration and Security Manager XP 1 TB LTU</b> (0 to 1 TB range, used capacity on one XP1024/XP128 disk array) [ ]	T1614AA		
See HP e3000 Business Servers Configuration Guide for more information.			
<b>LUN Configuration and Security Manager XP 1 TB LTU</b> (2 to 6 TB range, used capacity on one XP1024/XP128 disk array) [ ]	T1614AB		
See HP e3000 Business Servers Configuration Guide for more information.			
<b>LUN Configuration and Security Manager XP 1 TB LTU</b> (7 to 15 TB range, used capacity on one XP1024/XP128 disk array) [ ]	T1614AC		
See HP e3000 Business Servers Configuration Guide for more information.			
<b>LUN Configuration and Security Manager XP 1 TB LTU</b> (16 to 36 TB range, used capacity on one XP1024/XP128 disk array) [ ]	T1614AD		
See HP e3000 Business Servers Configuration Guide for more information.			
<b>Cache LUN XP</b>			
<b>Cache LUN XP 1 TB LTU</b> (0 to 1 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1616AA		
<b>Cache LUN XP 1 TB LTU</b> (2 to 6 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1616AB		
<b>Cache LUN XP 1 TB LTU</b> (7 to 15 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1616AC		
<b>Cache LUN XP 1 TB LTU</b> (16 to 36 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1616AD		
<b>Auto LUN XP</b>			
<b>Auto LUN XP 1 TB LTU</b> (0 to 1 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1615AA		
<b>Auto LUN XP 1 TB LTU</b> (2 to 6 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1615AB		
<b>Auto LUN XP 1 TB LTU</b> (7 to 15 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1615AC		
<b>Auto LUN XP 1 TB LTU</b> (16 to 36 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1615AD		
<b>Application Policy Manager XP</b>			
<b>Application Policy Manager XP for XP1024/XP128</b> (LTU on one management console and one XP1024/XP128 disk array) [ ]	B9540AB		
<b>Auto Path XP</b>			
<b>Auto Path XP for AIX</b>			
<b>Auto Path XP for AIX Media</b> [ ]	B7949B		
<b>Auto Path XP for AIX, 1 Server LTU</b> (LTU on one server running AIX connected to an XP Disk Array) [ ]	B7950B		
<b>Auto Path XP for AIX, Unlimited Server LTU</b> (LTU on unlimited servers running AIX connected to an XP Disk Array) [ ]	B7951B		
<b>Auto Path XP for Windows 2000</b>			
<b>Auto Path for W2K Media</b> [ ]	B9500A		
<b>Auto Path for W2K 1 Server LTU</b> (LTU on one server running W2K connected to an XP Disk Array) [ ]	B9501A		
<b>Auto Path for W2K 5 Server LTU</b> (LTU on five servers running W2K connected to an XP Disk Array) [ ]	B9502A		
<b>Auto Path for W2K 10 Server LTU</b> (LTU on ten servers running W2K connected to an XP Disk Array) [ ]	B9503A		
<b>Auto Path XP for Windows NT</b>			
<b>Auto Path for NT Media</b> [ ]	B9505A		
<b>Auto Path for NT 1 Server LTU</b> (LTU on one server running NT connected to an XP Disk Array) [ ]	B9506A		
<b>Auto Path for NT 5 Server LTU</b> (LTU on five servers running NT connected to an XP Disk Array) [ ]	B9507A		
<b>Auto Path for NT 10 Server LTU</b> (LTU on ten servers running NT connected to an XP Disk Array) [ ]	B9508A		
<b>Auto Path XP for HP-UX</b>			
<b>Auto Path for HP-UX Media</b> [ ]	B9510A		
<b>Auto Path for HP-UX 1 Server LTU</b> (LTU on one server running HP-UX connected to an XP Disk Array) [ ]	B9511A		
<b>Auto Path for HP-UX 5 Server LTU</b> (LTU on five servers running HP-UX connected to an XP Disk Array) [ ]	B9512A		
<b>Auto Path for HP-UX 10 Server LTU</b> (LTU on ten servers running HP-UX connected to an XP Disk Array) [ ]	B9513A		

Description	Product #	Opt #	Price
<b>Auto Path XP for Linux</b>			
<b>Auto Path for Linux Media</b> [ ]	B9515A		
<b>Auto Path for Linux Server LTU</b> (LTU on one server running Linux connected to an XP Disk Array) [ ]	B9516A		
<b>Auto Path for Linux 5 Server LTU</b> (LTU on five servers running Linux connected to an XP Disk Array) [ ]	B9517A		
<b>Auto Path for Linux 10 Server LTU</b> (LTU on ten servers running Linux connected to an XP Disk Array) [ ]	B9518A		
<b>Business Copy XP Media</b>			
<b>Business Copy XP 1 TB LTU</b> (0 to 1 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1613AA		
<b>Business Copy XP 1 TB LTU</b> (2 to 6 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1613AB		
<b>Business Copy XP 1 TB LTU</b> (7 to 15 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1613AC		
<b>Business Copy XP 1 TB LTU</b> (16 to 36 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1613AD		
<b>Continuous Access XP</b>			
<b>Continuous Access XP 1 TB LTU</b> (0 to 1 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1611AA		
<b>Continuous Access XP 1 TB LTU</b> (2 to 6 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1611AB		
<b>Continuous Access XP 1 TB LTU</b> (7 to 15 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1611AC		
<b>Continuous Access XP 1 TB LTU</b> (16 to 36 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1611AD		
<b>Continuous Access XP Extension</b>			
<b>Continuous Access XP Extension 1 TB LTU</b> (0 to 1 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1612AA		
<b>Continuous Access XP Extension 1 TB LTU</b> (2 to 6 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1612AB		
<b>Continuous Access XP Extension 1 TB LTU</b> (7 to 15 TB range, used capacity on one XP1024/XP128 disk array - See HP e3000 Business Servers Configuration Guide for more information.) [ ]	T1612AC		
<b>Continuous Access XP Extension 1 TB LTU</b> (16 to 36 TB range, used capacity on one XP1024/XP128 disk array - see config guide for more info) [ ]	T1612AD		
<b>RAID Manager XP</b>			
<b>RAID Manager XP</b> (LTU on unlimited servers, any supported Operating System See HP e3000 Business Servers Configuration Guide for more information on supported Operating Systems) [ ]	T1610A		
<b>Cluster Extension XP</b>			
<b>Cluster Extension XP for VERITAS Cluster Server</b> [ ]	B9531A		
<b>Cluster Extension XP for IBM HACMP Cluster Server</b> [ ]	B9532A		
<b>Cluster Extension XP for MS Cluster Service</b> [ ]	B9533A		
<b>Cluster Extension XP for MC/ServiceGuard for Linux</b> [ ]	B9534A		
<b>Performance Advisor XP</b>			
<b>Performance Advisor XP</b> (LTU on one management console) [ ]	B9369A		
<b>Resource Manager XP</b>			
<b>Resource Manager XP</b> for XP1024/XP128 (LTU on one XP1024/XP128 Disk Array) [ ]	T1617A		
<b>Data Exchange XP</b>			
<b>Data Exchange XP</b> For XP1024/XP128 (LTU on one server, any supported Operating Systems connected to an XP1024/XP128 Disk Array - Business Servers Configuration Guide for more information on supported Operating Systems) [ ]	T1620AB		
<b>Fast Recovery Solutions XP</b>			
<b>Fast Recovery Solutions XP</b> for Microsoft Exchange [ ]			
<b>Fast Recovery Solutions</b> for MS Exchange (LTU on one XP Disk Array) [ ]	B9550A		
<b>Direct Backup XP</b>			
<b>Direct Backup XP</b> (LTU on one XP512 or XP48 Disk Array) [ ]	B9560A		

## HP Surestore Disk Array XP48

### Overview

Once the configuration choices have been made and saved in WATSON or Sales Builder for Windows (SBW), the configuration may be converted to a quote and imported into the order entry system. If configuration tools such as WATSON or SBW are not available, then it is important to follow an ascending numeric order for each Item / Sub-Item ordered in sequence. See Appendix for step-by-step Manual Procedures for configuring the XP48.

### Structured Solution Programs (SSPs)

The HP Structured Solution Program (SSP) has been designed to make the ordering process simple, flexible, and easy to understand. It is completely menu driven requiring only a few simple choices for the various components in the system. Minimum/maximum numbers have been inserted into the menu wherever possible to simplify your choices and to guide your configuration decisions.

### XP48 Hardware Ordering Information Using SSP

	Description	Product #	Opt #	Price
1.0	<b>HP Surestore Disk Array XP48 SSP Solution</b> [ ]	A5920A		
2.0	<b>Surestore Disk Array XP48 System Frame</b> (1 required) Single-phase power only. Must select one power frequency option. XP48 Disk Control Frame with 1 ACP pair, redundant power supplies for CHIP pairs 1-3, HP Firmware (microcode) and Continuous Track XP with modem and pcAnywhere [ ]	A5921A		
	– XP48 System Frame			
	– 1-GB cache memory module (quantity 2)			
	– 256-MB shared memory model (quantity 2)			
	– SNMP support kit			
	60-Hz single-phase power option [ ]		001	
	50-Hz single-phase power option [ ]		002	
	Delivery trigger for support services (required) [ ]		2YB	
2.1	<b>Client-Host Interface Processor Pairs</b> (Min – 1 pair; Max – 3 pair)			
	4-port ExSA channel adapter pair [ ]	A5923A		
	8-port ExSA channel adapter pair [ ]	A5924A		
	4-port Fibre Channel adapter pair for short-wave [ ]	A5925A		
	8-port Fibre Channel adapter pair for short-wave [ ]	A5926A		
2.2	<b>Additional Non-volatile Cache</b> (Min – 0; Max – 16 GB including 2 GB cache in base DKC config.)			
	2-GB cache memory module [ ]	A5932A		
2.3	<b>Additional Shared Memory</b> (Min – 0; Max 1 GB including 512 MB shared memory in base DKC configuration)			
	256-MB shared memory module [ ]	A5933A		
2.4	<b>Disk Array Groups</b> (Min – 1; Max – 11)			
	18-GB 10K RPM, FC disk array group (4 drives per group) [ ]	A5936A		
	73-GB 10K RPM, FC disk array group (4 drives per group) [ ]	A5938A		
2.5	<b>Spare Disk Drives</b> (Min – 1 per array group size; Max – 4 total)			
	18-GB 10K RPM, FC spare disk drive [ ]	A5936S		
	73-GB 10K RPM, FC spare disk drive [ ]	A5938S		
	<b>Upgrade Products</b>			
	4-port ExSA channel adapter pair [ ]	A5923U		
	8-port ExSA channel adapter pair [ ]	A5924U		
	4-port Fibre Channel adapter pair for short-wave [ ]	A5925U		
	8-port Fibre Channel adapter pair for short-wave [ ]	A5926U		
	2-GB cache memory module [ ]	A5932U		
	256-MB share memory module [ ]	A5933U		
	18-GB 10K RPM, FC disk array group (4 drives per group) [ ]	A5936U		
	73-GB 10K RPM, FC disk array group (4 drives per group) [ ]	A5938U		
	18-GB 10K RPM, FC spare disk drive [ ]	A5936SU		
	73-GB 10K RPM, FC spare disk drive [ ]	A5938SU		
	<b>Host Interface Cables (Same as XP512)</b>			
	Fibre Channel Cables	A5750A		

Description	Product #	Opt #	Price
16-meter Fibre Channel cable, 50 micron, multi-mode [ ]		001	
50-meter Fibre Channel cable, 50 micron, multi-mode [ ]		002	
100-meter Fibre Channel cable, 50 micron, multi-mode [ ]		003	
<b>Fibre Optic Cables (ESCON)</b>	A5752A		
7-meter fibre optic cable [ ]		001	
13-meter fibre optic cable [ ]		002	
22-meter fibre optic cable [ ]		003	
31-meter fibre optic cable [ ]		004	
46-meter fibre optic cable [ ]		005	
61-meter fibre optic cable [ ]		006	
92-meter fibre optic cable [ ]		007	
122-meter fibre optic cable [ ]		008	

Notes:

1. Upgrade products are bundled with the solution, not integrated
2. Upgrades cannot be on the same order section with an SSP system order
3. Cables and software can be on the same order section as the upgrades.

### Software Products Ordering Information

Description	Product #	Opt #	Price
No upgrades, Capacities per Frame			
Rules places on Conrad/Watson - 1:many (1 Activation product to many capacity licenses/frame)			
<b>Continuous Access XP Media</b>	B9320A		
Continuous Access XP Media For XP256		001	
RAID Manager XP Bundle			
Continuous Access XP Media For XP48		002	
RAID Manager XP Bundle			
Continuous Access XP Media For XP512		003	
RAID Manager XP Bundle			
Continuous Access XP 1 TB LTU	B9321A		
Continuous Access XP 5 TB LTU	B9322A		
Continuous Access XP 10 TB LTU	B9323A		
<b>Continuous Access XP Extension Media</b>	B9325A		
Continuous Access XP Extension Media For XP256		001	
Continuous Access XP Extension Media For XP512		002	
Continuous Access XP Extension Media For XP48		003	
Continuous Access XP Extension 1 TB LTU	B9326A		
Continuous Access XP Extension 5 TB LTU	B9327A		
Continuous Access XP Extension 10 TB LTU	B9328A		
<b>Business Copy XP Media</b>	B9330A		
Business Copy XP Media For XP256		001	
RAID Manager XP Bundle			
Business Copy XP Media For XP512		002	
RAID Manager XP Bundle			
Business Copy XP Media For XP48		003	
RAID Manager XP Bundle			
Business Copy XP 1 TB LTU	B9331A		
Business Copy XP 5 TB LTU	B9332A		
Business Copy XP 10 TB LTU	B9333A		
<b>LUN Configuration Manager XP Media</b>	B9335A		
LUN Configuration Manager XP Media for XP256		001	
LUN Configuration Manager XP Media for XP512		002	
LUN Configuration Manager XP Media for XP48		003	
LUN Configuration Manager XP 1 TB LTU	B9336A		
LUN Configuration Manager XP 5 TB LTU	B9337A		
LUN Configuration Manager XP 10 TB LTU	B9338A		
<b>Auto LUN XP Media</b>	B9340A		
Auto LUN XP Media For XP256		001	
Auto LUN XP Media For XP512		002	



Description	Product #	Opt #	Price
Auto LUN XP Media For XP48		003	
Auto LUN XP 1 TB LTU	B9341A		
Auto LUN XP 5 TB LTU	B9342A		
Auto LUN XP 10 TB LTU	B9343A		
<b>Cache LUN XP Media</b>	B9345A		
Cache LUN XP Media For XP256		001	
Cache LUN XP Media For XP512		002	
Cache LUN XP Media For XP48		003	
Cache LUN XP 1 TB LTU	B9346A		
Cache LUN XP 5 TB LTU	B9347A		
Cache LUN XP 10 TB LTU	B9348A		
<b>Secure Manager XP Media</b>	B9351A		
Secure Manager XP Media For XP256		001	
Secure Manager XP Media For XP512		002	
Secure Manager XP Media For XP48		003	
Secure Manager XP 1 TB LTU	B9352A		
Secure Manager XP 5 TB LTU	B9353A		
Secure Manager XP 10 TB LTU	B9354A		
<b>HP Surestore Command View XP</b>	B9357A		
HP Surestore Command View XP For New XP256 Installations. Consists of:		001	
– Remote Control XP For XP256			
– HP Surestore Command View CD Kit			
– HP Surestore Command View XP CD (HP XP)			
HP Surestore Command View XP For New XP512 Installations. Consists of:		002	
– Try 'n Buy License Certificate			
– LUN Configuration Manager XP Media (LUNM, LUSE, OCVS) For XP512			
– Auto LUN XP Media For XP512			
– Cache LUN XP Media For XP512			
– Secure Manager XP Media For XP512			
– P-242R-J4041P			
– HP Surestore Command View XP CD (Remote Control XP)			
– HP Surestore Command View XP CD Kit			
– HP Surestore Command View XP CD (HP XP)			
HP Surestore Command View XP Upgrade For Existing Installations. Consists of:		003	
– HP Surestore Command View XP CD Kit			
– HP Surestore Command View XP CD (HP XP)			
Remote Control XP Upgrade For XP512		004	
– HP Surestore Command View XP CD (Remote Control XP)			
HP Surestore Command View XP For New XP48 Installations		005	
– HP Surestore Command View XP CD (Remote Control XP)			
– HP Surestore Command View XP CD Kit			
– HP Surestore Command View XP CD			
<b>Resource Manager XP</b>	B9358A		
Resource Manager XP For XP256		001	
Resource Manager XP For XP512		002	
Resource Manager XP For XP48		003	

## HP Surestore Disk Array XP256

### Overview

Once the configuration choices have been made and saved in WATSON or Sales Builder for Windows (SBW), the configuration may be converted to a quote and imported into the order entry system. If configuration tools such as WATSON or SBW are not available, then it is important to follow an ascending numeric order for each Item / Sub-Item ordered in sequence. See Appendix for step-by-step Manual Procedures for configuring the XP256.

### Structured Solution Programs (SSPs)

The HP Structured Solution Program (SSP) has been designed to make the ordering process simple, flexible, and easy to understand. It is completely menu driven requiring only a few simple choices for the various components in the system. Minimum/maximum numbers have been inserted into the menu wherever possible to simplify your choices and to guide your configuration decisions.

There are two SSPs for this product:

- A5700A – offers a fully configurable menu of choices that span the entire capacity range of configurations
- A5700B – offers fewer choices, designed for entry-level systems (.4 - 1.3 TB) with only 1 DKC and one DKU.

1. **Host Interface Cables**—Offers cable choices for each host interface in various lengths.
2. **Software**—Offers a wide choice of software products.
3. **Upgrade Products**—Allows for upgrading an existing array with more cache, disk storage, or host interfaces.
4. **Product Support and Services**—Choose the hardware and software support, and consulting services that your customer wants.

### XP256 Hardware (A5700A SSP)

	Description	Product #	Opt #	Price
1.0	<b>HP Surestore Disk Array XP256 (Fully Configurable SSP)</b> [ ]	A5700A		
2.0	<b>Surestore Disk Array XP256 Control Frame (One required)</b>			
	Disk Control Frame [ ]	A5701A		
	Includes disk control frame with 1 ACP pair, HP Firmware, 1-GB cache memory, 256-MB shared memory, and redundant power.			
2.1	<b>Client-Host Interface Processor (CHIP) pairs (Min. 1 pair - Max. 4 pair)</b>			
	8-port SCSI adapter pair [ ]	A5702A		
	4-ExSA (ESCON compatible) channel adapter pair [ ]	A5703A		
	8-ExSA (ESCON compatible) channel adapter pair [ ]	A5704A		
	4-port fiber channel adapter pair [ ]	A5705A		
	Additional Redundant Power Supply needed for CHIP Pairs 3-4 (Min. 0, Max. 1) [ ]	A5740A		
2.2	<b>Additional Cache Memory (1 GB) (Min 0, Max 15)</b> [ ]	A5710A		
2.3	<b>Additional Cache Platform Board (Min 0, Max 1) Required for Cache &gt; 8 GB</b> [ ]	A5711A		
2.4	<b>Additional Shared Memory (128 MB) (Min 0, Max 2)</b> [ ]	A5712A		
2.5	<b>Additional Array Control Processor (ACP) Pairs (Min 0, Max 3)</b> [ ]	A5719A		
3.0	<b>Fibre Channel Control Frame** (Min 0, Max 1)</b>			
	Fibre Channel Control Frame - A minimum of two FC-SCSI Bridges (A5707A) and minimum of one SCSI CHIP (A5702A) are required. [ ]	A5706A		
3.1	<b>FC-SCSI Bridge (Min. 2-Max 16) Must order in multiples of two.</b> [ ]	A5707A		
4.0	<b>Disk Array Frame R1 Configuration (Min 1 - Max 1)</b>			
	Cannot intermix 50-Hz and 60-Hz frames on same order.			
	60-Hz Disk Array frame - w/ 2 Disk Canister Mount Platforms and redundant power [ ]	A5708A		
	50-Hz Disk Array frame - w/ 2 Disk Canister Mount Platforms and redundant power [ ]	A5709A		
4.1	<b>Frame R1 Array Group Configuration (Min. 1 - Max. 15 array groups)</b>			
	Additional ACP pair for Domain 2 must be ordered for array groups 8 to 15.			
	15-GB array group - 4 drives per group [ ]	A5721R1		
	36.9-GB array group - 4 drives per group [ ]	A5723R1		
5.0	<b>Disk Array Frame R2 Configuration (Min 0 - Max 1)</b>			
	Cannot intermix 50-Hz and 60-Hz frames on same order.			
	60-Hz Disk Array frame - w/ 2 Disk Canister Mount Platforms and redundant power [ ]	A5708A		
	50-Hz Disk Array frame - w/ 2 Disk Canister Mount Platforms and redundant power [ ]	A5709A		
5.1	<b>Frame R2 Array Group Configuration (Min. 0 - Max. 14 array groups)</b>			



	Description	Product #	Opt #	Price
	Additional ACP pair for Domain 2 must be ordered for array groups 23-29.			
	15-GB array group - 4 drives per group [ ]	A5721R2		
	36.9-GB array group - 4 drives per group [ ]	A5723R2		
	SCSI Cable Set for Frame R2 (Required if disks are configured for frame R2) [ ]	A5746A		
6.0	<b>Disk Array Frame L1 Configuration (Min 0 - Max 1)</b>			
	Cannot intermix 50-Hz and 60-Hz frames on same order.			
	60-Hz Disk Array frame - w/ 2 Disk Canister Mount Platforms and redundant power [ ]	A5708A		
	50-Hz Disk Array frame - w/ 2 Disk Canister Mount Platforms and redundant power [ ]	A5709A		
6.1	<b>Frame L1 Array Group Configuration (Min. 0 - Max. 15 array groups)</b>			
	Additional ACP pair for Domain 3 required for array groups 30-36.			
	Additional ACP pair for Domain 4 required for array groups 37- 44.			
	15-GB array group - 4 drives per group [ ]	A5721L1		
	36.9-GB array group - 4 drives per group [ ]	A5723L1		
	SCSI Cable Set for Frame L1 (Required if disks for are ordered for Frame L1) [ ]	A5745A		
7.0	<b>Disk Array Frame L2 Configuration (Min 0 - Max 1)</b>			
	Cannot intermix 50-Hz and 60-Hz frames on same order.			
	60-Hz Disk Array frame - w/ 2 Disk Canister Mount Platforms and redundant power [ ]	A5708A		
	50-Hz Disk Array frame - w/ 2 Disk Canister Mount Platforms and redundant power [ ]	A5709A		
7.1	<b>Frame L2 Array Group Configuration (Min. 0 array groups - Max. 14)</b>			
	Additional ACP pair for Domain 4 must be ordered for array groups 52-58.			
	15-GB array group - 4 drives per group [ ]	A5721L2		
	36.9-GB array group - 4 drives per group [ ]	A5723L2		
	SCSI Cable Set for Frame L2 (Required if L2 drives ordered) [ ]	A5746A		
8.0	<b>Spare Disk Drives (Min. 1 per disk type, Max. 4 in Frame R1 and 4 in Frame L1)</b>			
	15-GB spare drive [ ]	A5731S		
	36.9-GB spare drive [ ]	A5733S		

Support Delivery Trigger Option #2YY must be added to A5701A.

A5706A and A5707A for expanded FC connectivity only. For basic FC Connectivity use 4 port Fibre Channel adapter pair A5705A.

XP256 Interface Cables and Software (A5700A SSP)

Description	Product #	Opt #	Price
<b>Host Interface Cables</b>			
<b>Fibre Channel Cables</b>			
	A5750A		
16-meter Fibre Channel Cable, 50 micron, multimode [ ]		001	
50-meter Fibre Channel Cable, 50 micron, multimode [ ]		002	
100-meter Fibre Channel Cable, 50 micron, multimode [ ]		003	
<b>SCSI Cables</b>			
	A5751A		
20-meter 68-pin HDTS to 68-pin HDTS cable [ ]		003	
2-meter Y-cable/68-pin HDTS male cable [ ]		004	
5-meter 68-pin HDTS to 68-pin HDTS cable in-line terminator cable for V-Class [ ]		005	
10-meter 68-pin HDTS to 68-pin HDTS cable in-line terminator cable for V-Class [ ]		006	
2/3-meter Y in-line terminator cable – 68-pin high-density male for V-Class [ ]		007	
2/5-meter Y in-line terminator cable – 68-pin high-density male for V-Class [ ]		008	
5-meter 68P high-density LP to 68P high-density LP [ ]		009	
10-meter 68P high-density LP to 68P high-density LP [ ]		010	
<b>Fibre Optic Cables (ESCON compatible)</b>			
	A5752A		
Fiber Optic Cable – 7-meter [ ]		001	
Fiber Optic Cable – 13-meter [ ]		002	
Fiber Optic Cable – 22-meter [ ]		003	
Fiber Optic Cable – 31-meter [ ]		004	
Fiber Optic Cable – 46-meter [ ]		005	
Fiber Optic Cable – 61-meter [ ]		006	
<b>Software</b>			
HP Surestore Continuous Access XP (license to use on 1 array up to 3 TB) [ ]	B7905A		
HP Surestore Continuous Access XP (upgrade LTU for an additional 3TB) [ ]	B7905AU		
HP Surestore Business Copy XP (license to use on 1 array up to 3 TB) [ ]	B7906A		
HP Surestore Business Copy XP (upgrade LTU for an additional 3 TB) [ ]	B7906AU		
HP Surestore Secure Manager XP (license to use on 1 array up to 3 TB) [ ]	B7907A		
HP Surestore Secure Manager XP (upgrade LTU for an additional 3 TB) [ ]	B7907AU		
HP Surestore Cache LUN XP (license to use on 1 array up to 3 TB) [ ]	B7908A		
HP Surestore Cache LUN XP (upgrade LTU for an additional 3 TB) [ ]	B7908AU		
HP Surestore Performance Manager XP (for use on 1 PC ) [ ]	B7909A		
HP Surestore RAID Manager XP for HP-UX (license to use on 1 array for HP-UX systems) [ ]	B7910A		
HP Surestore RAID Manager XP for NT (license to use on 1 array for NT systems) [ ]	B7915A		
HP Surestore RAID Manager XP for Solaris (license to use on 1 array for Solaris systems) [ ]	B7916A		
HP Surestore RAID Manager XP for IBM AIX (license to use on 1 array for AIX systems) [ ]	B7917A		
HP Surestore RAID Manager XP for DEC UNIX (license to use on 1 array for DEC UNIX systems) [ ]	*		
HP Surestore Remote Control XP (license to use on one PC) [ ]	B7911A		
HP Surestore LUN Configuration Manager XP (license to use on 1 array for up to 3 TB of capacity) [ ]	B7912A		
HP Surestore LUN Configuration Manager XP (upgrade LTU for an additional 3 TB) [ ]	B7912AU		
HP Surestore Resource Manager XP (license to use on 1 array for MVS systems) [ ]	B7913A		
HP Surestore Data Exchange XP for HP-UX (license to use on 1 array up to 3 TB of capacity) [ ]	B7914A		
HP Surestore Data Exchange XP for HP-UX (upgrade LTU on 1 array for an additional 3 TB) [ ]	B7914AU		

Notes:

- Capacity tiers for software licenses represent raw storage capacities, i.e. 3, 6, 9 TB.
  - Add Support Options #0SG to all software products and #0SY to only the "A" suffix software products.
- \* Contact factory



**XP256 Upgrade Products (A5700A SSP)**

	Description	Product #	Opt #	Price
	<b>Upgrade Products</b>			
	8-port SCSI adapter pair [ ]	A5702U		
	4-ExSA (ESCON compatible) channel adapter pair [ ]	A5703U		
	8-ExSA (ESCON compatible) channel adapter pair [ ]	A5704U		
	4 port fiber channel adapter pair [ ]	A5705U		
	Additional redundant power supply for CHIP Pairs 3 to 4 [ ]	A5740U		
	1-GB cache memory [ ]	A5710U		
	Additional cache platform board [ ]	A5711U		
	128-MB Shared Memory Module [ ]	A5712U		
	Additional ACP pair [ ]	A5719U		
	15-GB array group - (4 disk drives per group) [ ]	A5721U		
	36.9-GB array group - (4 disk drives per group) [ ]	A5723U		
	15-GB spare drive [ ]	A5731U		
	36.9-GB spare drive [ ]	A5733U		
	SCSI Cable Set for Array Frame L1 [ ]	A5745U		
	SCSI Cable Set for Array Frames R2 and L2 [ ]	A5746U		

**XP256 Hardware (A5700B SSP)**

After selecting the SSP choices, select software and cables as required.

	Description	Product #	Opt #	Price
1.0	Surestore Disk Array XP256 (0.4 to 1.5 TB) [ ]	A5700B		
2.0	Surestore Disk Array XP256 Control frame (required 1)			
	Disk Control Frame [ ]	A5701A		
	Includes Disk Control Frame with 1 ACP pair, HP Firmware, 1 GB cache memory, 256 MB shared memory, redundant power			
2.2	Client-Host Interface Processor pairs (Min 1 pair Max 4 pair)			
	8-port SCSI adapter pair [ ]	A5702A		
	Additional Power Supply for CHIP pairs 3 to 4 (Min 0, Max 1)			
	Additional redundant power supply [ ]	A5740A		
2.3	Additional Nonvolatile Cache (Min 0, Max 4)			
	1-GB cache memory [ ]	A5710A		
2.4	Additional Shared Memory (Min 0, Max 1)			
	128-MB Shared Memory Module [ ]	A5712A		
2.5	Additional Array Control Processor Pairs (Min 0, Max 1)			
	Additional ACP Pairs [ ]	A5719A		
3.0	Disk Array Frames (Min 1 - Max 1)			
	60-Hz Disk Array frame - w/ 2 Disk Canister Mount Platforms [ ]	A5708A		
	50-Hz Disk Array frame - w/ 2 Disk Canister Mount Platforms [ ]	A5709A		
	Disk Array Frame Configuration			
3.1	Frame R1 Configuration			
	36.9-GB array group - 4 drives per group (Min 3, Max 10) [ ]	A5723R1		
3.5	Spare Disk Drives (Min 1, Max 4)			
	36.9-GB spare drive [ ]	A5733S		

Note: Support Delivery Trigger Option #2YY must be added to A5701A

## HP Surestore Disk Array XP512

### Overview

The ordering documentation for the HP Surestore Disk Array XP512 is contained in the HP Surestore Disk Array XP512 Configuration and Ordering Guide. The Configuration and Ordering guide can be found on HP's Electronic Sales Partner web site or HP's Partnership web site.

The new unparalleled Hewlett-Packard Surestore Disk Array XP512 provides high-capacity, high-speed, enterprise-level storage with continuous data availability, heterogeneous systems support, and ease of serviceability, scalability, and connectivity. It can be attached to multiple open systems servers as well as to mainframes, meeting customer needs for a wide range of configurations up to a maximum raw capacity of 24 TB with 47-GB disk drives. (73-GB disk drives will be added to the product line later in the year, boosting raw capacity to 37 TB.)

### Structured Solution Programs

SCSI-FC router required for use with the HP e3000 server family (A5814A).

	Description	Product #	Opt#	Price
1.0	<b>HP Surestore Disk Array XP512 Solution</b> [ X ]	A5950A		
2.0	<b>Surestore Disk Array XP512 Control Frame</b> (1 required) Base DKC configuration is 3 phase 50-/60-Hz . For single phase, select one single phase power option			
	XP512 Disk Control Frame with 1 ACP pair, Redundant Power Supplies for CHIP pairs 1 and 2, HP Firmware (microcode) and Continuous Track XP with Modem and pcAnywhere	[ ] A5951A		
	XP512 Disk Control Frame			
	1-GB Cache Memory Module, Quantity 2			
	256-MB Shared Memory Module, Quantity 2			
	FC Device Cable Set, DKC to R1U-DKU			
	SNMP Support Kit			
	60-Hz Single-phase Power, DKC [ ]	A5951A	001	
	Power Cable Kit, Single-phase 60HZ DKC			
	AC Box Kit for Single-phase DKC			
	50-Hz Single-phase Power, DKC [ ]	A5951A	002	
	Power Cable Kit, Single-phase 50HZ DKC			
	AC Box Kit for Single-phase DKC			
	Delivery Trigger for Services (required) [ X ]		2YB	
2.1	<b>Client-Host Interface Processor pairs</b> (Min 1 pair Max 4 pair)			
	4-port ExSA Channel Adapter Pair [ ]	A5953A		
	8-port ExSA Channel Adapter Pair [ ]	A5954A		
	8-port Fiber Channel Adapter Pair for Short Wave [ ]	A5956A		
2.2	<b>Additional DKC Power Supply</b> for CHIP pairs 3 and 4			
	Additional CHIP Power Supply [ ]	A5961A		
2.3	<b>Additional Nonvolatile Cache</b> (Min 0, Max 32 GB including 2 GB cache in base DKC configuration)			
	2-GB Cache Memory Module [ ]	A5962A		
2.4	<b>Additional Cache Platform Board</b> (Min 0, Max 1) Required for cache beyond 16 GB including 2 GB in base DKC configuration.			
	Additional Cache Platform Board [ ]	A5960A		
2.5	<b>Additional Shared Memory</b> (Min 0, Max 1,280 MB including 512 MB Shared Memory in base DKC configuration)			
	256-MB Shared Memory Module [ ]	A5963A		
2.6	<b>Additional Array Control Processor</b> (Min 0, Max 4 including 1 ACP pair in base DKC configuration)			
	Array Control Processor (ACP) pair [ ]	A5964A		
2.7	<b>DKU Frame L1 Interconnect</b> - FC Device Cable Set. Required if DKU is configured to position L1. (No cables required for DKU in position R1). Min 0, Max 1.			
	FC Device Cable Set, DKC to L1 or R1 DKU [ ]	A5974A		
3.0	<b>Disk Array Frame</b> (Min 1 position R1, Max 6) Must select one option and must match Power option of DKC, no intermixing of power options. FC Device Cable Set A5974A required for position L1 DKU.			
	XP512 Disk Array Frame ( Must select one power option) [ ]	A5965A		
	XP512 Disk Array Frame			

	Description	Product #	Opt#	Price
	Disk Canister Mount Platform			
	3-phase, 60-Hz, for DKU [ ]	A5965A	001	
	AC Box for 3-phase DKU			
	Power Cable Kit, 3 phase, 60-Hz DKU			
	3-phase, 50-Hz, for DKU [ ]	A5965A	002	
	AC Box for 3-phase DKU			
	Power Cable Kit, 3 phase, 50-Hz DKU			
	Single-phase, 60-Hz, for DKU [ ]	A5965A	003	
	AC Box for Single-phase, DKU			
	Power Cable Kit, single phase, 60-Hz DKU			
	Single-phase, 50-Hz, for DKU [ ]	A5965A	004	
	AC Box for Single-phase, DKU			
	Power Cable Kit, single phase, 50-Hz DKU			
3.1	<b>Disk Array Groups</b> (Min 1 Max 126)(23 R1 and L1)(24 R2 and L2) (16 R3 and L3)			
	18-GB 10k RPM, FC Disk Array Group - 4 drives per group [ ]	A5966A		
	47-GB 10k RPM, FC Disk Array Group - 4 drives per group [ ]	A5967A		
	73-GB 10k RPM, FC Disk Array Group - 4 drives per group [ ]	A5968A		
3.2	<b>Spare Disk Drives</b> (Min 1 per array group size ) Max Spare Drives per position: 4 in R1 and 4 in L1.			
	18-GB 10k RPM, FC Spare Disk Drive [ ]	A5966S		
	47-GB 10K RPM, FC Spare Disk Drive [ ]	A5967S		
	73-GB 10K RPM, FC Spare Disk Drive [ ]	A5968S		
3.3	<b>DKU Frame Interconnect</b> - FC Device Cable Set. DKUs in positions R2, R3, L2 and L3 require one set A5975A cable for each position configured. Min 0, Max 4. (No cables required for DKU position R1. One cable set A5974A required for DKU position L1 only.)			
	FC Device Cable Set, DKU to R2, R3, L2, or L3 DKU [ ]	A5975A		
	END SSP			
	<b>Host Interface Cables</b>			
	Fibre Channel Cables	A5750A		
	16 meter Fibre Channel Cable, 50 micron, multimode [ ]	A5750A	001	
	50 meter Fibre Channel Cable, 50 micron, multimode [ ]	A5750A	002	
	100 meter Fibre Channel Cable, 50 micron, multimode [ ]	A5750A	003	
	Fibre Optic Cables (ESCON)	A5752A		
	Fiber Optic Cable – 7-meter [ ]	A5752A	001	
	Fiber Optic Cable – 13-meter [ ]	A5752A	002	
	Fiber Optic Cable – 22-meter [ ]	A5752A	003	
	Fiber Optic Cable – 31-meter [ ]	A5752A	004	
	Fiber Optic Cable – 46-meter [ ]	A5752A	005	
	Fiber Optic Cable – 61-meter [ ]	A5752A	006	
	Fiber Optic Cable – 92-meter [ ]	A5752A	007	
	Fiber Optic Cable – 122-meter [ ]	A5752A	008	

### XP512 Upgrades

	Description	Product #	Opt. #	Price
	Order Configuration Rules:			
	1. Upgrade products are bundled with the solution, NOT integrated			
	2. Upgrades cannot be on the same order section with a SSP A5950A system order.			
	3. Cables and Software can be on the same order section as the upgrades.			
	<b>Upgrade Products</b>			
	4-port ExSA Channel Adapter Pair [ ]	A5953U		
	8-port ExSA Channel Adapter Pair [ ]	A5954U		
	8-port Fiber Channel Adapter Pair for Short Wave [ ]	A5956U		
	Additional CHIP Power Supply [ ]	A5961U		
	2-GB Cache Memory Module [ ]	A5962U		
	Additional Cache Platform Board [ ]	A5960U		
	256-MB Shared Memory Module [ ]	A5963U		
	Array Control Processor (ACP) Pair [ ]	A5964U		
	XP512 Disk Array Frame ( Must select one power option) [ ]	A5965U		
	XP512 Disk Array Frame			

Description	Product #	Opt. #	Price
Disk Canister Mount Platform			
3-phase, 60-Hz, for DKU [ ]	A5965U	001	
AC Box for 3-phase DKU			
Power Cable Kit, 3 phase, 60-Hz DKU			
3-phase, 50-Hz, for DKU [ ]	A5965U	002	
AC Box for 3-phase DKU			
Power Cable Kit, 3 phase, 50-Hz DKU			
Single-phase, 60-Hz, for DKU [ ]	A5965U	003	
AC Box for Single-phase, DKU			
Power Cable Kit, single phase, 60-Hz DKU			
Single-phase, 50-Hz, for DKU [ ]	A5965U	004	
AC Box for Single-phase, DKU			
Power Cable Kit, single phase, 50-Hz DKU			
18-GB 10k RPM, FC Disk Array Group - 4 drives per group [ ]	A5966U		
47-GB 10k RPM, FC Disk Array Group - 4 drives per group [ ]	A5967U		
73-GB 10k RPM, FC Disk Array Group - 4 drives per group [ ]	A5968U		
18-GB 10k RPM, FC Spare Disk Drive [ ]	A5966SU		
47-GB 10K RPM, FC Spare Disk Drive [ ]	A5967SU		
73-GB 10K RPM, FC Spare Disk Drive [ ]	A5968SU		
FC Device Cable Set, DKC to L1 or R1-DKU Upgrade [ ]	A5974U		
FC Device Cable Set, DKU to R2, R3, L2, or L3 DKU Upgrade [ ]	A5975U		

**XP512 Software, Orca Release – Rev 17.1 (Last Revision - 07/06/00)**

All LTU products for initial purchase or upgrade.

Description	Product #	Opt#	Price
<b>Data Mirroring/Security</b>			
<b>Continuous Access XP Media</b> [ ]	B9320A		
First Year of System Support Option zero-cost trigger (required) [ X ]		OS6	
Software Enablement Option (required) [ X ]		OSY	
Continuous Access XP Media For XP512 includes RAID Manager [ ]	B9320A	002	
Continuous Access XP 1 TB LTU [ ]	B9321A		
First Year of System Support Option (required) [ X ]		OS6	
Continuous Access XP 5 TB LTU [ ]	B9322A		
First Year of System Support Option (required) [ X ]		OS6	
Continuous Access XP 10 TB LTU [ ]	B9323A		
First Year of System Support Option (required) [ X ]		OS6	
Continuous Access XP Extension Media [ ]	B9325A		
First Year of System Support Option zero-cost trigger (required) [ X ]		OS6	
Continuous Access XP Ext. Media For XP512 [ ]	B9325A	002	
Continuous Access XP Ext. 1 TB LTU [ ]	B9326A		
First Year of System Support Option (required) [ X ]		OS6	
Continuous Access XP Ext. 5 TB LTU [ ]	B9327A		
First Year of System Support Option (required) [ X ]		OS6	
Continuous Access XP Ext. 10 TB LTU [ ]	B9328A		
First Year of System Support Option (required) [ X ]		OS6	
<b>Business Copy XP Media</b> [ ]	B9330A		
First Year of System Support Option zero-cost trigger (required) [ X ]		OS6	
Business Copy XP Media For XP512 includes RAID Manager [ ]	B9330A	002	
Implementation Service (#302 or #303 required) [ X ]	H9273A		
Implementation Service for Simple environments [ ]	H9273A	302	
Implementation Service for Complex environments [ ]	H9273A	303	
Business Copy XP 1 TB LTU [ ]	B9331A		
First Year of System Support Option (required) [ X ]		OS6	
Business Copy XP 5 TB LTU [ ]	B9332A		
First Year of System Support Option (required) [ X ]		OS6	
Business Copy XP 10 TB LTU [ ]	B9333A		
First Year of System Support Option (required) [ X ]		OS6	
<b>Secure Manager XP Media</b> [ ]	B9351A		



Description		Product #	Opt#	Price
First Year of System Support Option zero-cost trigger (required)	[ X ]		OS6	
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY	
Secure Manager XP Media For XP512	[ ]	B9351A	002	
Secure Manager XP 1 TB LTU	[ ]	B9352A		
First Year of System Support Option (required)	[ X ]		OS6	
Secure Manager XP 5 TB LTU	[ ]	B9353A		
First Year of System Support Option (required)	[ X ]		OS6	
Secure Manager XP 10 TB LTU	[ ]	B9354A		
First Year of System Support Option (required)	[ X ]		OS6	
<b>Auto Path XP for NT</b>	[ ]	B7934A		
First Year of System Support Option (required)	[ X ]		OS6	
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY	
Auto Path XP for AIX	[ ]	B7936A		
First Year of System Support Option (required)	[ X ]		OS6	
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY	
Auto Path XP for AIX, Work Group Server LTU	[ ]	B7936A	001	
Auto Path XP for AIX, Enterprise Server LTU	[ ]	B7936A	002	
Upgrade from Workgroup to Enterprise LTU	[ ]	B7936A	003	
Auto Path for W2K/Pentium Media	[ ]	B9500A		
First Year of System Support Option zero-cost trigger (required)	[ X ]		OS6	
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY	
Auto Path for W2K/Pentium 1 Server LTU	[ ]	B9501A		
First Year of System Support Option (required)	[ X ]		OS6	
Auto Path for W2K/Pentium 5 Server LTU	[ ]	B9502A		
First Year of System Support Option (required)	[ X ]		OS6	
Auto Path for W2K/Pentium 10 Server LTU	[ ]	B9503A		
First Year of System Support Option (required)	[ X ]		OS6	
Auto Path for W2K/Pentium 25 Server LTU	[ ]	B9504A		
First Year of System Support Option (required)	[ X ]		OS6	
<b>Performance</b>				
<b>Cache LUN XP Media</b>	[ ]	B9345A		
First Year of System Support Option zero-cost trigger (required)	[ X ]		OS6	
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY	
Cache LUN XP Media For XP512	[ ]	B9345A	002	
Cache LUN XP 1 TB LTU	[ ]	B9346A		
First Year of System Support Option (required)	[ X ]		OS6	
Cache LUN XP 5 TB LTU	[ ]	B9347A		
First Year of System Support Option (required)	[ X ]		OS6	
Cache LUN XP 10 TB LTU	[ ]	B9348A		
First Year of System Support Option (required)	[ X ]		OS6	
Performance Manager XP	[ ]	B7909A		
First Year of System Support Option (required)	[ X ]		OS6	
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY	
<b>Auto LUN XP Media</b>	[ ]	B9340A		
First Year of System Support Option zero-cost trigger (required)	[ X ]		OS6	
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		OSY	
Auto LUN XP Media For XP512	[ ]	B9340A	002	
Auto LUN XP 1 TB LTU	[ ]	B9341A		
First Year of System Support Option (required)	[ X ]		OS6	
Auto LUN XP 5 TB LTU	[ ]	B9342A		
First Year of System Support Option (required)	[ X ]		OS6	
Auto LUN XP 10 TB LTU	[ ]	B9343A		

Description		Product #	Opt#	Price
First Year of System Support Option (required)	[ X ]		0S6	
<b>Array Management</b>				
<b>HP Surestore Command View XP</b>	[ ]	B9357A		
First Year of System Support Option zero-cost trigger (required)	[ X ]		0S6	
Software Enablement Option (required)	[ X ]		0SY	
HP Surestore Command View XP For New XP512 Installations	[ ]	B9357A	002	
<i>Includes Remote Control XP For XP512</i>				
<i>Includes Try 'n Buy License Certificates For:</i>				
<i>LUN Config Manager XP Media For XP512</i>				
<i>Auto LUN XP Media For XP512</i>				
<i>Cache LUN XP Media For XP512</i>				
<i>Secure Manager XP Media For XP512</i>				
<b>Remote Control XP Upgrade For XP512</b>	[ ]	B9357A	004	
<b>LUN Configuration Manager XP Media</b>	[ ]	B9335A		
First Year of System Support Option zero-cost trigger (required)	[ X ]		0S6	
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		0SY	
LUN Configuration Manager XP Media For XP512	[ ]	B9335A	002	
LUN Configuration Manager XP 1 TB LTU	[ ]	B9336A		
First Year of System Support Option (required)	[ X ]		0S6	
LUN Configuration Manager XP 5 TB LTU	[ ]	B9337A		
First Year of System Support Option (required)	[ X ]		0S6	
LUN Configuration Manager XP 10 TB LTU	[ ]	B9338A		
First Year of System Support Option (required)	[ X ]		0S6	
<b>Mainframe Software</b>				
<b>Resource Manager XP</b>	[ ]	B9358A		
First Year of System Support Option (required)	[ X ]		0S6	
Software Enablement Option (Included with initial array purchase, required for upgrade to an existing array)	[ ]		0SY	
Resource Manager XP For XP512	[ ]	B9358A	002	
<b>Data Exchange XP For HP-UX</b>	[ ]	B9359A		
First Year of System Support Option (required)	[ X ]		0S6	
Software Enablement Option (required)	[ X ]		0SY	
Data Exchange XP HP-UX For XP512	[ ]	B9359A	002	
Data Exchange XP For Windows NT	[ ]	B9360A		
First Year of System Support Option (required)	[ X ]		0S6	
Software Enablement Option (required)	[ X ]		0SY	
Data Exchange XP Win NT For XP512	[ ]	B9360A	002	
Data Exchange XP For Solaris	[ ]	B9361A		
First Year of System Support Option (required)	[ X ]		0S6	
Software Enablement Option (required)	[ X ]		0SY	
Data Exchange XP Solaris For XP512	[ ]	B9361A	002	
Data Exchange XP For AIX	[ ]	B9362A		
First Year of System Support Option (required)	[ X ]		0S6	
Software Enablement Option (required)	[ X ]		0SY	
Data Exchange XP AIX For XP512	[ ]	B9362A	002	



## Subchapter 4.8—Tape Drives, DVD-ROM, and Libraries

### DDS DAT

	Product Description	Product #	Opt #	Price
	Embedded DDS-2 DAT drive/4.0 GB	A3183A	003	
	Embedded DDS-3 drive/12.0 GB	A3542A	003	
	Embedded DDS-4 drive/20.0 GB	A6368A	003	

### DVD-ROM

	Product Description	Product #	Opt #	Price
	Embedded DVD ROM FOR 9x8, 9x9	A5220A	003	

### Media

	Description	Product #	Opt #	Price
	67.1 MB Certified Tape Cartridge <i>For 35401A, 7911, 7912, 7914, 9144A. Box of 5.</i>	88140LC		
	16.7 MB Certified Tape Cartridge <i>For 35401A, 7911, 7912, 7914, 9144A. Box of 5.</i>	88140SC		
	133 MB Certified Tape Cartridge for 9145A <i>Box of 5.</i>	92245L		
	Write-Once Optical Disk, 1024 byte/sector	92290A		
	Certified, 1/4-inch Tape Cartridges for the 9144A tape drive, 600-foot (box of five)	88140LC		
	Certified, 1/4-inch Tape Cartridges for the 9144A tape drive, 150-foot (box of five)	88140SC		

### HP-IB to SCSI Conversion kit

	Product Description	Product #	Opt #	Price
	<b>HP-IB to SCSI conversion kit</b>	88707S		
	Converts 7979A to 7979S		079	
	Converts 7980A to 7980S		080	
	Converts 7980XC to 7980SX conversion kit		081	
	HP-IB trade-in credit		100	

## Surestore Tape Autoloaders and Accessories

Description	Product #	Opt #	Price
<b>Surestore Tape Autoloaders</b>			
HP Surestore Autoloader 1/9 (DLT-8000 – deskside unit – HVDS)	C7145RA		
HP Surestore Autoloader 1/9 (DLT-8000 – rackmount unit – HVDS) <i>(SCSI cable not included; see below to order appropriate cable)</i>	C7745RA		
<b>Accessories</b>			
1/9 Skins Kit (includes all cosmetic parts – front bezel, chin, enclosure and feet)	C7148A		
1/9 HVDS Connectivity Kit (HVD HBA, 5 pieces media, cleaning cartridge, ESD Wrist Strap)	C7738RA		
1/9 Rackmount Kit (Two 1/9 Autoloaders per rack; can be mounted side-by-side)	C7740R		
1/9 6-Slot Removable Magazine (with six pieces of media)	C7742R		
1/9 6-Slot Removable Magazine (empty)	C7741R		
<b>SCSI Cables for DLT Tape Drives</b>			
<i>Note: Each tape drive requires a dedicated data path to the Host</i>			
SCSI cable, for DLT Tape Drive	A4852A		
<i>Choose a combination of the following options to equal the number of DLT drives (required unless cable stock on-hand)</i>			
0.5-meter 68-pin cable (HDTS)		BZ6	
2.5-meter 68-pin cable (HDTS)		BZ7	
5.0-meter 68-pin cable (HDTS)		BZ8	
10.0-meter 68-pin cable (HDTS)		BZ9	
20.0-meter 68-pin cable (HDTS)		BZA	
<b>DLT Media and Cleaning Cartridges</b>			
DLTtape IV Data Cartridge	C5141F		
DLTtape IIIXT Data Cartridge	C5141A		
HP DLT Cleaning Cartridge	C5142A		

### Surestore Mid-range Tape Libraries and Accessories (2/20, 4/40, 6/60, and 6/140)

Description	Product #	Opt #	Price
<b>Tape Libraries</b>			
HP Surestore Tape Library 2/20 (Rack Mount Version - HVDS) <i>Requires 1 or 2 tape drives (not included); includes empty media magazines for 20 cartridges.</i>	A5583A		
HP Surestore Tape Library 2/20 (Desktop Version - HVDS) <i>Requires 1 or 2 tape drives (not included); includes empty media magazines for 20 cartridges.</i>	A5584A		
HP Surestore Tape Library 4/40 (Rack Mount Version - HVDS) <i>Requires 2 or 4 tape drives (not included); includes empty media magazines for 40 cartridges.</i>	A5585A		
HP Surestore Tape Library 4/40 (Deskside Version - HVDS) <i>Requires 2 or 4 tape drives (not included); includes empty media magazines for 40 cartridges.</i>	A5586A		
HP Surestore Tape Library 6/60 (Rack Mount Version - HVDS) <i>Requires 2, 4, or 6 tape drives (not included); includes empty media magazines for 60 cartridges.</i>	A5587A		
HP Surestore Tape Library 6/60 (Deskside Version - HVDS) <i>Requires 2, 4, or 6 tape drives (not included); includes empty media magazines for 60 cartridges.</i>	A5588A		
HP Surestore Tape Library 6/140 (HVDS) <i>Requires 4 or 6 tape drives (not included); includes empty media magazines for 100 cartridges.</i>	A4669A		
<b>Tape Drives – Required with all libraries</b>			
HP Surestore DLT-8000 Tape Drive – HVDS	A5589A		
Factory Installation – Installs tape drives in library at the factory. (This option is required with all orders that include a tape library. To order a separate additional drive for upgrade or other purposes, use a separate order section and order the drive as an accessory without the OD1 option.)		OD1	
<b>Upgrades, Enclosures, Rack Mount Kits, and Shipping Packages</b>			
20 to 40 Slot Upgrade Kit for 2/20 Library	A1378A		
40 to 60 Slot Upgrade Kit for 4/40 Library	A1379A		
100 Slot to 120 and 140 Slot Upgrade Kit for 6/140 Library	A4671A		
Factory installation – installs upgrade kits for 6/140 at the factory. (This option is required with all orders for a 4,6/120 or 4,6/140 slot library; the kit upgrades the library in 20 slot increments. To order a capacity upgrade kit to upgrade from a 100 slot library to a 120 or 140 slot library in the field, use a separate order section and order the capacity upgrade kit without the OD1 option.)		OD1	
Desktop Enclosure Kit for 20 Slot Library	C7204J		
Deskside Enclosure Kit for 40 Slot Library	C7216J		
Deskside Enclosure Kit for 60 Slot Library	C7232J		
Rack Mount Kit for 2/20	C7205J		
Rack Mount Kit for 4/40	C7217J		
Rack Mount Kit for 6/60	C7233J		
Return Shipping Package Kit for Rackmount 2/20	C7206J		
Return Shipping Package Kit for Desktop 2/20	C7207J		
Return Shipping Package Kit for Rackmount 4/40	C7218J		
Return Shipping Package Kit for Deskside 4/40	C7219J		
Return Shipping Package Kit for Rackmount 6/60	C7234J		
Return Shipping Package Kit for Deskside 6/60	C7241J		
6/140 Return Shipping Packaging Kit	C9174S		
<b>SCSI Cables for Tape Drives</b>			
<i>Note: Each tape drive requires a dedicated data path to Host</i>			
SCSI cable for tape drive	A4852A		
<i>Choose a combination of the following options to equal the number of tape drives (required unless cable stock on-hand)</i>			
0.5-meter 68-pin cable (HDTS)		BZ6	
2.5-meter 68-pin cable (HDTS)		BZ7	
5.0-meter 68-pin cable (HDTS)		BZ8	
10.0-meter 68-pin cable (HDTS)		BZ9	
20.0-meter 68-pin cable (HDTS)		BZA	
<b>Media, Magazines, and Cleaning Cartridge</b>			
DLTtape IV Data Cartridge	C5141F		
HP DLT Cleaning Cartridge	C5142A		
5-Slot Removable Magazine (with 5 HP DLTtape IV data cartridges)	C7236J		
5-Slot Removable Magazine (no media)	C7235J		

## Surestore High-end Tape Libraries and Accessories (10/180 and 20/700)

Description	Product #	Opt #	Price
<b>Tape Libraries</b>			
HP Surestore Tape Library 10/180	A5617A		
Requires 1 to 10 DLT drives; includes empty media magazines for 84 cartridges			
HP Surestore Tape Library 20/700	A5597A		
Requires 1 to 20 DLT drives; includes empty media magazines for 228 cartridges.			
<b>Tape Drives – Required with all libraries</b>			
Choose from 1 to 10 (10/180 Library) or 1 to 20 (20/700 Library) of the following DLT Tape Drives			
OR - choose from 1 to 6 (10/180 Library) or 1 to 12 (20/700 Library)			
Tape Drives – OR - mix and match of both types (drives required except for 2-tier channel)			
HP Surestore DLT-8000 Tape Drive for 10/180 or 20/700 Library	A5599A		
<b>Upgrade Kits</b>			
Expansion module to convert base 10/180 Library from 84 to 140 slots	A1376A		
Expansion module to convert base 10/180 Library from 140 to 174 slots	A1377A		
Requires 56 slot expansion (A1376A) to be installed first.			
Expansion module to convert base 20/700 Library from 288 to 396 slots	A5604A		
Expansion module to convert base 20/700 Library from 396 to 690 slots	A5605A		
Second Drive Tower to convert from 10 drive capacity to 20 drive capacity for 20/700 Library	A5600A		
Second Cartridge Access Port to convert from 20 to 40 cartridge import/export for 20/700 Library	A5601A		
Expansion module to convert base 10/588 Library from 252 to 420 slots	A4865A		
Expansion module to convert base 10/588 Library from 420 to 588 slots	A4866A		
20 Slot Expansion Kit to upgrade base 6/100 Library to 60, 80, or 100 slots	A4859A		
<b>SCSI Cables for DLT Tape Drives</b>			
<i>Note: Each tape drive mechanism requires a dedicated data path to Host</i>			
SCSI cable, 68-pin HDTS to 68-pin HDTS M/M for DLT Tape Drive Mechanism	A4852A		
<i>Choose a combination of the following options to equal the number of DLT drives (required unless cable stock on-hand)</i>			
0.5-meter 68-pin cable		BZ6	
2.5-meter 68-pin cable		BZ7	
5.0-meter 68-pin cable		BZ8	
10.0-meter 68-pin cable		BZ9	
20.0-meter 68-pin cable		BZA	
SCSI Daisy Chain Cable Assembly	A5597-		
<b>SCSI Cables for DLT Tape Library Robotics</b>			
SCSI cable for DLT Tape Library Robotics	A4854A		
<i>Choose only one of the following options (required unless cable stock on-hand)</i>			
2.5-meter 68-pin cable		BZ7	
5.0-meter 68-pin cable		BZ8	
10.0-meter 68-pin cable		BZ9	
20.0-meter 68-pin cable		BZA	
1.0-meter, 50-pin to 68-pin conversion		BZE	
1.5-meter, 50-pin to 68-pin conversion		BZF	
2.0-meter, 50-pin to 68-pin conversion		BZG	
5.0-meter, 50-pin to 68-pin conversion		BZH	
<b>DLT Media, Cleaning Cartridges, and Bar Code Labels</b>			
DLTape IV Data Cartridge	C5141F		
DLTape IIIXT Data Cartridge	C5141A		
HP DLT Cleaning Cartridge	C5142A		

Note: Data Cartridge labels can be ordered from Engineered Data Products (EDP). US sales line 1-800-432-1337, International 303 438 8375.



## Subchapter 4.9—Terminals and Consoles

### Display Terminals

Description	Product #	Opt #	Price
<b>New 700/96 Console/Terminal</b>	C1099A		
U.S. Keyboard		ABA	
<b>HP 700/96 Display Terminal – Amber Phosphor</b>	C1064A		
U.S. Keyboard		ABA	
<b>HP 700/96 Display Terminal – Green Phosphor</b>	C1064G		
U.S. Keyboard		ABA	
<b>HP 700/96 Display Terminal – Soft White Phosphor</b>	C1064W		
U.S. Keyboard		ABA	

### HP Secure Web Console

Description	Product #	Opt #	Price
HP Secure Web Console Note 1: Secure Web Console is integrated into the A-, R-, L-, and N-Class servers and does not need to be ordered with these servers. Note 2: An RS-232 cable is required to connect the Secure Web Console to the server. This can be the existing console cable or a new customer supplied cable or it can be ordered from HP. The HP product number is 24542G. For more information, see the Configuration Guide, Web Console section under Peripherals and Accessories.	J3591A		

## Subchapter 4.10—Printers and Accessories

### Printers

Description	Product #	Opt #	Price
<b>HP LineJet and LP Series Network Interfaces and Cables</b>			
JetDirect EX Plus Ethernet/IEEE 802.3 Network Interface	J2591A		
JetDirect 500X External Print Server 910/100Base-TX, 10Base2	J3265A		
JetDirect E500X External Print Server (Token Ring)	J3264A		
JetDirect EX to LP Series Parallel Connect Cable (3 meter)	C2951A		
JetDirect EX to LP Series Parallel Connect Cable (2 meter)	C2950A		
<b>Ribbons for LineJet Printers and LP Series Printers</b>			
<b>(Available as service parts; Contact HP Parts Direct)</b>			
60 yard text ribbons, box of 6 ribbons (service part number: 171543-001)			
100 yard text ribbons, box of 6 ribbons (service part number: 171543-002)			
60 yard bar code/OCR ribbons, box of 6 ribbons (service part number: 171543-003)			
600 yard bar code/OCR ribbons, box of 6 ribbons (service part number: 171543-004)			
<b>HP 5000 Cut-Sheet Printers and Accessories</b>			
PostScript™ Level 2 for the D640	C5630A		
D640 16 megabytes add-on memory	C5635A		
<b>Network Interfaces and Cables</b>			
3-meter parallel cable for use with D640	C2946A		
10-meter parallel cable for use with D640	C2947A		
<b>Supplies and Consumables</b>			
D640 toner Kit (8 bottles)	C5626A		
D640 Drum Kit	C5629A		
D640 Developer Kit (2 bottles)	C5632B		
D640 Printer Pick Roller Kit	C5633A		
D640 Fuser (120-127V)	C5627A		
D640 Fuser (200-240V)	C5628A		
D640 HCI Pick Roller	C5636B		
C30/C30D/C40D toner, 2 cartridges	C4006A		
C30/C30D/C40D Toner, 8 cartridges	C4007A		
C30/C30D Photoconductor	C4682A		
C40D Photoconductor	C4683A		
C30/C30D/C40D Fuser, 100-127 VAC	C4675A		
C30/C30D/C40D Fuser, 200-240 VAC	C4676A		
Cleaner Unit for C30/C30D/C40D	C4011A		
C30/C30D Developer Unit	C4015A		
C40D Developer Unit	C4677A		
<b>HP 5000 F-Series Printer Consumables</b>			
Toner for HP 5000 Printers, 9 kg (estimated yield is 267,000 pages)	35192A		
<b>P405 Multi-Purpose Impact Printer</b>			
Model P405 Multi-purpose impact printer (600 cps in draft mode, 150 cps in letter)	PSYP405P		
Localized for Europe and AAA (only available in UK and France)			
Model P405 Multi-purpose impact printer (600 cps in draft mode, 150 cps in letter)	PSYPAMER		
Localized for the Americas (obsolete July 1, 2001) *			
P405 Printer Stand (635x670x730 – W x D x H)**	PSYP405S		
Pack of 5 ribbons for the P405 (black)**	PSYP405R		
Replacement print head (Lifetime 350,000 pages)**	PSYP405H		
Automatic sheet feeder cassette version A (for normal paper – max 180)**	PSYP405A		
Automatic sheet feeder cassette version B (heavy paper and envelopes – max 50)**	PSYP405B		
Replacement platen assembly (rubber roller to transport paper)**	PSYP405Y		
Replacement pick up rolls**	PSYP405L		

\* A 100% comparable PSYPAMER product is available through our OEM:

PSI, 285 North Drive, #F, Melbourne, FL 32934. Phone: 321-254-1946; Fax: 321-242-0258; Email: [psi\\_us@inetmail.att.net](mailto:psi_us@inetmail.att.net)

\*\* These products are still available in UK and France. Outside of these countries, you can order these products through PSI (see above contact for the US), and PSI Europe (phone: +49 271 3597 361, email: [p405-support@psi.si.de](mailto:p405-support@psi.si.de))



## Printer Accessories

Description	Product #	Opt #	Price
<b>Other Printer Supplies and Accessories</b>			
<i>256x Printer Accessories</i>			
Ribbon 2563/64 Longlife Text Only, 3-pack	92162A		
Ribbon Text and Optical Mark Recognition <i>For 2562/63/64 printers. Box of 3.</i>	92162M		
Towel Ribbon for 2565/66/67	9282-0545		
<i>293x Printer Accessories</i>			
Print Head	92154B		
3-Ribbon Pack (10 mil characters/ribbon)	92155L		
3-Ribbon Pack (For OCR and bar code applications)	92155M		

## Subchapter 4.11—Cables and Accessories

Product Description	Product #	Opt #	Price
<b>Low Density to Low Density SE SCSI Cables</b> (male to male)			
The following cables are primarily used between two SE SCSI-2 peripherals:			
.5-meter LDBL50 to LDBL50 SCSI Cable	92222A		
1-meter LDBL50 to LDBL50 SCSI Cable	92222B		
2-meter LDBL50 to LDBL50 SCSI Cable	92222C		
3-meter LDBL50 to LDBL50 SCSI Cable	C2927A		
5-meter LDBL50 to LDBL50 SCSI Cable	C2928A		
.9-meter LDBL50 to LDTS50 SCSI Cable	K2284		
<b>High Density to Low Density SE SCSI Cables</b> (male to male)			
The following cables are used to connect an HP 3000 Server to an SE SCSI-2 peripheral:			
.9-meter HDTS50 to LDBL50 SCSI Cable	K2296		
1.5-meter HDTS50 to LDBL50 SCSI Cable	K2297		
.9-meter HDTS50 to LDTS50 SCSI Cable	K2294		
1.5-meter HDTS50 to LDTS50 SCSI Cable	K2295		
<b>High Density to High Density FWD SCSI Cables</b> (male to male)			
The following cables are used for most FWD SCSI-2 connections:			
.9-meter HDTS68 to HDTS68 SCSI Cable	C2911C		
2.5-meter HDTS68 to HDTS68 SCSI Cable	C2924C		
10-meter HDTS68 to HDTS68 SCSI Cable	C7522A		
20-meter HDTS68 to HDTS68 SCSI Cable	C7532A		
<b>Cable Extenders</b>			
1-meter LDBL50 male to female SE SCSI extender cable	92222D		
3-meter LDBL50 male to female SE SCSI extender cable	C2900A		
5-meter LDBL50 male to female SE SCSI extender cable	C2901A		
10-meter LDBL50 male to female SE SCSI extender cable	C2902A		
20-meter LDBL50 male to female SE SCSI extender cable	C2903A		
Fiber-optic SCSI extender (supported on printers only)	28643A		
Add 50-meter Fiber-optic cable		AFB	
Add 100-meter Fiber-optic cable		AFD	
<b>SCSI Terminators</b>			
Single-ended LDBL50 SCSI terminator (typically used for peripherals)	K2291		
Single-ended HDTS50 SCSI terminator (typically used for SPUs)	C2904A		
Fast/Wide/Differential HDTS68 SCSI terminator (used for peripherals or SPUs)	C2905A		