



IBM System Storage DS3000 series Interoperability Matrix

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Important Disclaimer Information

The following compatibility/interoperability information provided by IBM should be used as a reference guide only, because hardware and software levels and releases may vary, and numerous hardware and software combinations are possible. IBM makes no representation or guarantee regarding the compatibility of specific hardware or software products.

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To take full advantage of the constant improvements in the IBM System Storage DS3000 series firmware, you should upgrade to the latest code levels as soon as it is available. The latest code levels are available by selecting the Product Support link from the appropriate DS3000 series model page located at:

<http://www-1.ibm.com/servers/storage/disk/index.html>

For specific Operating System support on your server, refer to IBM Server Proven at:

www-03.ibm.com/servers/eserver/serverproven/compat/us/

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What's new in the DS3000 Interop Matrix?

The following lists changes to the DS3000 Interop Matrix since the last update:

- DS3000 added to System Storage Interoperation Center (see page 4)
- DS3300 iSCSI Storage Controllers: 1726-31X, 1726-32X (see page 5)
- DS3300 iSCSI Express Models: 1726-31E, 1726-32E (see page 5)
- DS3300 Software Feature Pack (42C2142) and DS3300 iSCSI Controller Upgrade (39R6511) (see page 5)
- iSCSI Host Bus Adapters added (see page 9)
- EXP3000 Express Models: 1727-01E, 1727-01M (see page 5)
- DS3400 Simple SAN Express Kits: 1726-41U, 1726-42U (see page 5)
- IBM eServer xSeries X226, x236, x306, x366 supported with DS3200 (see page 7)
- SteelEye Lifekeeper Linux clustering with DS3200 (see page 11)

7/10/2007 update:

- 3 new models: 1726-22T, 1726-42T, and 1727-02T (see page 5)
- System x server x3755 (see page 8)
- Multi-pathing information (see page 11)

5/28/2007 update:

- The Sample Configurations have been moved into a separate document.
- LSI SAS PCIx HBA with DS3200 (see page 9)
- SteelEye Lifekeeper Linux clustering with DS3400 (see page 11)

What is in the box?

The DS3000 series enclosure ships with the following hardware and software items.

Hardware

1. Hard disk drive filler panels (12)
2. RAID controllers (up to 2)
3. Power supplies (2)
4. Battery units (up to 2)
5. Power cables (2 jumper line cords)
6. Rack-mounting hardware kit (1), including:
 - a. Rails (2) (right and left assembly)
 - b. Rail end plate covers (2) (right and left assembly)
 - c. M5 black hex-head slotted screws (12)
 - d. Washers (8)

Attention: The DS3000 series enclosure does not ship with region-specific power cords. You must obtain the IBM-approved power cords for your region.

Software and documentation

1. IBM System Storage DS3200, DS3300, and DS3400 Support CD
The Support CD contains the IBM DS3000 Storage Manager Host software. The CD also includes firmware, online help, and publications in Adobe Acrobat Portable Document Format (PDF)
2. IBM System Storage DS3200 Storage Subsystem Installation, User's and Maintenance Guide
3. IBM System Storage DS3300 Storage Subsystem Installation, User's and Maintenance Guide
4. IBM System Storage DS3400 Storage Subsystem Installation, User's and Maintenance Guide
5. IBM Systems Safety Notices
6. Instructions for installing the DS3000 series enclosure in a rack cabinet are provided in the Rack Installation Instructions.
7. Box of ID labels (used to label the enclosure IDs on the front of the enclosure)

If an item is missing or damaged, contact your IBM marketing representative or authorized reseller.

System Storage Interoperation Center (SSIC)

The DS3200 and DS3400 products have been added to the System Storage Interoperation Center (SSIC). Please see this web site (<http://www-01.ibm.com/storage/support/config/ssic/index.jsp>) for more detailed information on interoperability than what is listed in this Interoperability Matrix. The DS3300 will be added to SSIC shortly.

The SSIC lists interoperability for various release levels of firmware on the DS3000 family. It also has details on operating system service pack levels that have been tested with the DS3000 products.

DS3000 Storage Controllers and Expansion Units

Description	PN (MTM)	PN (Option)	FC
DS3200 SAS Storage Controllers			
IBM System Storage DS3200 (Single controller)	172621X	N/A	2603
IBM System Storage DS3200 (Dual controller)	172622X	N/A	2604
IBM System Storage DS3200 DC Power Model (Dual controller) ¹	172622T	N/A	2627
IBM System Storage DS3200 Express Model (Single controller) ²	172621E	N/A	2620
IBM System Storage DS3200 Express Model (Dual controller) ³	172622E	N/A	2621
DS3300 iSCSI Storage Controllers			
IBM System Storage DS3300 (Single controller)	172631X	N/A	2618
IBM System Storage DS3300 (Dual controller)	172632X	N/A	2619
IBM System Storage DS3300 Express Model (Single controller) ⁴	172631E	N/A	2709
IBM System Storage DS3300 Express Model (Dual controller) ⁴	172632E	N/A	2710
DS3400 FC Storage Controllers			
IBM System Storage DS3400 (Single controller)	172641X	N/A	2605
IBM System Storage DS3400 (Dual controller)	172642X	N/A	2606
IBM System Storage DS3400 DC Power Model (Dual controller)	172642T	N/A	2626
IBM System Storage DS3400 Express Model (Single controller) ⁵	172641E	N/A	2622
IBM System Storage DS3400 Express Model (Dual controller) ⁶	172642E	N/A	2623
IBM System Storage DS3400 (Single controller) Simple SAN Express Kit	172641U	N/A	2719
IBM System Storage DS3400 (Dual controller) Simple SAN Express Kit	172642U	N/A	2721
EXP3000 Expansion Units			
IBM System Storage EXP3000 (Single Environmental Service Module) ⁷	172701X	N/A	2676
IBM System Storage EXP3000 DC Power Model (Dual ESMs included)	172702T	N/A	2628
IBM System Storage EXP3000 Express Model (for DS3000 attachment)	172701E	N/A	2708
IBM System Storage EXP3000 Express Model (for MegaRAID attach)	172701M	N/A	2713

¹ Two SAS 2 port daughter cards (39R6509) included with DS3200 DC Power Model

² DS3200 Single Controller Express Model (1726-21E) contains one DS3200 SAS Single Controller Model (1726-21X), one SAS HBA Controller (25R8060), and one 3m SAS Cable (39R6531)

³ DS3200 Dual Controller Express Model (1726-22E) contains one DS3200 SAS Dual Controller Model (1726-22X), two SAS HBA Controllers (25R8060), and two 3m SAS Cables (39R6531)

⁴ Includes one IBM Qlogic iSCSI Single Port PCI-e HBA (39Y6146)

⁵ DS3400 Single Controller Express Model (1726-41E) contains one DS3400 FC Single Controller Model (1726-41X), two 5M Fiber Optic Cables LC-LC (39M5697), and two 4-Gbps SW SFP Transceivers (39R6475)

⁶ DS3400 Dual Controller Express Model (1726-42E) contains one DS3400 FC Dual Controller Model (1726-42X), four 5M Fiber Optic Cables LC-LC (39M5697), and four 4-Gbps SW SFP Transceivers (39R6475)

⁷ Expand a single controller DS3200 or DS3400 using an EXP3000 with a single Environmental Services Module (ESM) EXP3000 and a dual controller DS3200 or DS3400 using an EXP3000 with two ESMs (ESM part number listed in the table below)

DS3000 Series Advanced Features Structure

START HERE

Out-of-the-box: 4 partitions on DS3200, 2 partitions on DS3300 and DS3400

Out-of-the-box solution is "complete" for large majority of typical storage workloads. however, if you need to grow...

...add DS3200 (39R6540), DS3300 (42C2142) or DS3400 (42C2143) Software Feature Pack
4 partitions on DS3200, DS3300, or DS3400
(required first for any features shown below)

DS3000 Partition Expansion License
39R6536 (per DS3000)
5 to 16 partitions

DS3000 VolumeCopy License
39R6534 (per DS3000)
Enabled

DS3000 FlashCopy Expansion License
39R6533 (per DS3000)
1 to 64 FlashCopy licenses

DS3000 1GB Cache Memory Upgrade
39R6517 (per controller)
Enabled

DS3000 FlashCopy VolumeCopy License
39R6535 (per DS3000)
Enabled

DS3000 EXP3000 Expansion License
39R6537 (per DS3000 up to 3 EXP3000s)
Enabled

DS3000 Hardware & Software Options

				DS3200		DS3300		DS3400	
Description	PN (MTM)	PN (Option)	FC	Single	Dual	Single	Dual	Single	Dual
Hardware Options									
DS3000 1GB Cache Memory Upgrade ¹	N/A	39R6517	4838	Y	Y ²	Y	Y	Y	Y ²
DS3000 System Memory Cache Battery	N/A	39R6519	4839	Y	Y ²	Y	Y	Y	Y ²
DS3200 SAS 2-Port Daughter Card	N/A	39R6509	4836	Y	Y ²	-	-	-	-
DS3200 SAS Controller Upgrade	N/A	39R6507	N/A	Y	-	-	-	-	-
DS3300 iSCSI Controller Upgrade	N/A	39R6511	N/A	-	-	Y	-	-	-
DS3400 FC Controller Upgrade	N/A	39R6513	N/A	-	-	-	-	Y	-
EXP3000 Environmental Services Module	N/A	39R6515	4802	-	Y ³	-	Y ³	-	Y ³
Software Options									
DS3200 Software Feature Pack ⁴	N/A	39R6540	4840	Y	Y	-	-	-	-
DS3300 Software Feature Pack ⁴	N/A	42C2142	4856	-	-	Y	Y	-	-
DS3400 Software Feature Pack ⁴	N/A	42C2143	4857	-	-	-	-	Y	Y
DS3000 EXP3000 Expansion License ^{1,3}	N/A	39R6537	4846	Y	Y	Y	Y	Y	Y
DS3000 Partition Expansion License ¹	N/A	39R6536	4841	-	-	Y	Y	Y	Y
DS3000 FlashCopy Expansion License ¹	N/A	39R6533	4842	Y	Y	Y	Y	Y	Y
DS3000 VolumeCopy License ¹	N/A	39R6534	4843	Y	Y	Y	Y	Y	Y
DS3000 FlashCopy VolumeCopy License ¹	N/A	39R6535	4844	Y	Y	Y	Y	Y	Y
Cable and Connector Options									
IBM 1m SAS Cable	N/A	39R6529	3708	Y	Y	Y ⁵	Y ⁵	Y ⁵	Y ⁵
IBM 3m SAS Cable	N/A	39R6531	3707	Y	Y	Y ⁵	Y ⁵	Y ⁵	Y ⁵
4-Gbps SW SFP Transceiver	N/A	39R6475	4804	-	-	-	-	Y	Y
1M LC-LC Fibre Channel Cable	N/A	39M5696	3703	-	-	-	-	Y	Y
5M LC-LC Fibre Channel Cable	N/A	39M5697	3704	-	-	-	-	Y	Y
25M LC-LC Fibre Channel Cable	N/A	39M5698	3705	-	-	-	-	Y	Y

¹ DS3200 or DS3400 Software Feature Pack Required with this option

² One per controller required

³ Expand a single controller DS3200 or DS3400 using a single ESM EXP3000, and a dual controller DS3200 or DS3400 using a dual ESM EXP3000

⁴ DS3200, DS3300 or DS3400 Software Feature Pack required to support 1GB Cache Memory Upgrade & all software options

⁵ SAS cables are needed when attaching EXP3000 expansion units

Supported IBM System x & BladeCenter Servers

Description	DS3200		DS3300		DS3400	
	Single	Dual	Single	Dual	Single	Dual
IBM xSeries & System x Servers						
IBM eServer xSeries 225, 235, 255	-	-	-	-	Y	Y
IBM eServer xSeries 226	Y	Y	Y	Y	Y	Y
IBM eServer xSeries 236	Y	Y	Y	Y	Y	Y
IBM eServer xSeries 260	-	-	Y	Y	Y	Y
IBM eServer xSeries 306	Y	Y	Y	Y	-	-
IBM eServer xSeries 306m	-	-	Y	Y	Y	Y
IBM eServer xSeries 326, 326m	-	-	-	-	Y	Y
IBM eServer xSeries 336	-	-	Y	Y	Y	Y
IBM eServer xSeries 343	-	-	-	-	Y	Y
IBM eServer xSeries 346	-	-	Y	Y	Y	Y
IBM eServer xSeries 366	Y	Y	Y	Y	Y	Y
IBM eServer xSeries 460	-	-	Y	Y	Y	Y
IBM System x3200	-	-	Y	Y	-	-
IBM System x3250	Y	Y	Y	Y	Y	Y
IBM System x3400 / 3455	Y	Y	Y	Y	Y	Y
IBM System x3500 / x3550	Y	Y	Y	Y	Y	Y
IBM System x3650 / 3655	Y	Y	Y	Y	Y	Y
IBM System x3650 T	-	-	Y	Y	Y	Y
IBM System x3755	-	-	Y	Y	Y	Y
IBM System x3800 / x3850	-	-	Y	Y	Y	Y
IBM System x3950	-	-	Y	Y	Y	Y
IBM Blade Servers						
IBM BladeCenter LS20 / LS21 / LS41	-	-	Y	Y	Y	Y
IBM BladeCenter HS20 / HS21 / HS40	-	-	Y	Y	Y	Y
IBM BladeCenter JS20 ¹ / JS21 ¹	-	-	Y	Y	Y	Y

Minimum Non-IBM Server Hardware Requirements

Server	Processor Speed	Memory
Intel Compatible servers ²	Intel Pentium® or Pentium-equivalent microprocessor (450 MHz or faster)	System memory: For Windows Server 2003, Linux, and NetWare: A minimum of 256 MB (512 MB preferred)
AMD Compatible servers ²	AMD Compatible microprocessor (450 MHz or faster)	System memory: For Windows Server 2003, Linux, and NetWare: A minimum of 256 MB (512 MB preferred)

¹ IBM BladeCenter JS20 and JS21 are supported with SLES9 only. The DS3400 storage management needs to be done from another supported platform.

² A HBA from the list of supported HBAs is required.

Supported Host Bus Adapters (HBA)

Description	PN (MTM)	PN (Option)	FC	DS3200	DS3300	DS3400
4Gbps – for xSeries & System x servers¹						
Emulex 4Gb FC Single-Port PCI-X HBA for IBM System x (Emulex LP110002 ²)	N/A	42D0405	1696	-	-	Y
Emulex 4Gb FC Dual-Port PCI-X HBA for IBM System x (Emulex LP11002 ³)	N/A	42D0407	1697	-	-	Y
Emulex 4Gb FC Single-Port PCI-E HBA for IBM System x (Emulex LPe11000 ³)	N/A	42C2069	1698	-	-	Y
Emulex 4Gb FC Dual-Port PCI-E HBA for IBM System x (Emulex LPe11002 ³)	N/A	42C2071	1699	-	-	Y
QLogic 4Gb FC Single-Port PCIe HBA for IBM System x (QLA2462 ³)	N/A	39R6525	3567	-	-	Y
QLogic 4Gb FC Dual-Port PCIe HBA for IBM System x (QLE2462 ³)	N/A	39R6527	3568	-	-	Y
DS4000 FC 4Gbps - PCI-X Single Port HBA (QLA2460 ³)	N/A	39M5894	3550	-	-	Y
DS4000 FC 4Gbps - PCI-X Dual Port HBA (QLA2462 ³)	N/A	39M5895	3551	-	-	Y
2Gbps – for xSeries & System x servers²						
FASTT FC-133 Host Bus Adapter (QLA2340 ³)	N/A	24P0960	1650	-	-	Y
IBM SMB 2-Gbps Fibre Channel HBA (QLA200 ³)	N/A	13N1873	1687	-	-	Y
4Gbps – for BladeCenter servers²						
Emulex 4Gb SFF Fibre Channel Expansion Card for IBM BladeCenter	N/A	39Y9186	N/A	-	-	Y
QLogic 4Gb SFF Fibre Channel Expansion Card for IBM eServer BladeCenter	N/A	26R0890	N/A	-	-	Y
2Gbps – for BladeCenter servers²						
BladeCenter SFF Fibre Channel Expansion Card	N/A	26K4841	N/A	-	-	Y
SAS HBAs 3 Gbps – for System x servers						
IBM SAS HBA Controller ³	N/A	25R8060	1681	Y	-	-
LSI SAS PCIx HBA (LSISAS3801X) ⁴	N/A	N/A	N/A	Y	-	-
iSCSI HBAs						
IBM Qlogic iSCSI Single Port PCI-e HBA	N/A	39Y6146	N/A	-	Y	-
IBM Qlogic iSCSI Dual Port PCI-e HBA	N/A	42C1770	N/A	-	Y	-
IBM iSCSI Server SX Adapter	N/A	30R5501	N/A		Y	
IBM iSCSI Server TX Adapter	N/A	30R5201	N/A		Y	
Qlogic 4050 iSCSI HBA (QLA4050)	N/A	N/A	N/A	-	Y	-
Qlogic 4050C iSCSI HBA (QLA4050C)	N/A	N/A	N/A	-	Y	-
Qlogic 4052C iSCSI HBA (QLA4052C)	N/A	N/A	N/A	-	Y	-
Qlogic 4060C iSCSI HBA (QLA4060C)	N/A	N/A	N/A	-	Y	-
Qlogic 4062C iSCSI HBA (QLA4062C)	N/A	N/A	N/A	-	Y	-

¹ Boot from SAN operation supported on DS3400 with HBAs in this section

² Non-IBM HBAs supported only with IBM BIOS, NVS RAM, and device drivers (if applicable)

³ Boot from SAN operation not supported on DS3200

Supported SAN Fabric

				DS3200		DS3400	
Description	PN (MTM)	PN (Option)	FC	Single	Dual	Single	Dual
4Gbps – for xSeries & System x servers							
IBM System Storage SAN10Q-2	691810X	N/A	N/A	-	-	Y	Y
IBM TotalStorage SAN16B-2	200516B	N/A	N/A	-	-	Y	Y
IBM TotalStorage SAN16M-2	202616E	N/A	N/A	-	-	Y	Y
IBM TotalStorage SAN18B-R	200518R	N/A	N/A	-	-	Y	Y
IBM TotalStorage SAN32B-2	200532B	N/A	N/A	-	-	Y	Y
IBM TotalStorage SAN32M-2	202632E	N/A	N/A	-	-	Y	Y
IBM TotalStorage SAN64B-2	200564B	N/A	N/A	-	-	Y	Y
2Gbps – for xSeries & System x servers							
2109-F16 SAN FC Switch	2109F16	N/A	N/A	-	-	Y	Y
2109-F32 SAN FC Switch	2109F32	N/A	N/A	-	-	Y	Y
2109-F32 SAN FC Switch	3534F08	N/A	N/A	-	-	Y	Y
4Gbps – for BladeCenter servers							
Brocade 10-port 4Gb SAN Switch Module for IBM BladeCenter	N/A	32R1813	N/A	-	-	Y	Y
Brocade 20-port 4Gb SAN Switch Module for IBM BladeCenter	N/A	32R1812	N/A	-	-	Y	Y
QLogic 10-port 4Gb Fibre Channel Switch Module for IBM eServer BladeCenter	N/A	32R1904	N/A	-	-	Y	Y
QLogic 20-port 4Gb Fibre Channel Switch Module for IBM eServer BladeCenter	N/A	26R0881	N/A	-	-	Y	Y
2Gbps – for BladeCenter servers							
BladeCenter 2pt Fibre Channel Switch Module	N/A	48P7062	N/A	-	-	Y	Y
Brocade Enterprise SAN Switch Module for IBM BladeCenter	N/A	90P0165	N/A	-	-	Y	Y
Brocade Entry SAN Switch Module for IBM BladeCenter	N/A	26K5601	N/A	-	-	Y	Y
Cables							
1m LC-LC Fibre Channel Cable (min/max)	N/A	39M5696	3703	-	-	1/2	2/4
5m LC-LC Fibre Channel Cable (min/max)	N/A	39M5697	3704	-	-	1/2	2/4
25m LC-LC Fibre Channel Cable (min/max)	N/A	39M5698	3705	-	-	1/2	2/4
IBM 1m SAS Cable (min/max)	N/A	39R6529	3708	1/3	2/6	-	-
IBM 3m SAS Cable (min/max)	N/A	39R6531	3707	1/3	2/6	-	-
SFPs							
4Gb Short Wave SFP (min/max)	N/A	39R6475	4804	-	-	1/2	2/4
2Gb Short Wave SFP Module (min/max)	N/A	13N1796	4384	-	-	1/2	2/4

Supported Operating Systems

Description	DS3200	DS3300	DS3400
Linux			
Red Hat Enterprise Linux 3 AS for AMD64/EM64T	Y	-	Y
Red Hat Enterprise Linux 3 AS for x86	Y	-	Y
Red Hat Enterprise Linux 3 ES for AMD64/EM64T	Y	-	Y
Red Hat Enterprise Linux 3 ES for x86	Y	-	Y
Red Hat Enterprise Linux 4 AS for AMD64/EM64T	Y	Y	Y
Red Hat Enterprise Linux 4 AS for x86	Y	Y	Y
Red Hat Enterprise Linux 4 ES for AMD64/EM64T	Y	Y	Y
Red Hat Enterprise Linux 4 ES for x86	Y	Y	Y
SUSE LINUX Enterprise Server 9 for AMD64/EM64T	Y	Y	Y
SUSE LINUX Enterprise Server 9 for x86	Y	Y	Y
SUSE LINUX Enterprise Server 10 for AMD64/EM64T	Y	Y	Y
SUSE LINUX Enterprise Server 10 for x86	Y	Y	Y
Microsoft			
Microsoft Windows Server 2003, Web Edition	Y	Y	Y
Microsoft Windows Server 2003/2003 R2, Datacenter Edition	Y	Y	Y
Microsoft Windows Server 2003/2003 R2, Datacenter x64 Edition	Y	Y	Y
Microsoft Windows Server 2003/2003 R2, Enterprise Edition	Y	Y	Y
Microsoft Windows Server 2003/2003 R2, Enterprise x64 Edition	Y	Y	Y
Microsoft Windows Server 2003/2003 R2, Standard Edition	Y	Y	Y
Microsoft Windows Server 2003/2003 R2, Standard x64 Edition	Y	Y	Y
Microsoft Windows Storage Server 2003/2003 R2, Standard Edition	Y	Y	Y
Windows Small Business Server 2003/2003 R2 Premium Edition	Y	Y	Y
NetWare			
NetWare 6.5	Y	-	Y
VMware			
VMware ESX Server 2.5.4	-	-	Y ¹
VMware ESX Server 3.0.1	-	-	Y ¹
IBM Director			
IBM Director v 5.2.0 ²	Y	Y	Y
Clustering Solutions			
Microsoft Cluster Server	Y	Y	Y
SteelEye LifeKeeper Linux Clustering	Y	-	Y
Multi-pathing			
Microsoft Windows MPIO	Y	Y	Y
Linux RDAC	Y	Y	Y

¹ See support on specific guest operating systems on the next page. Also refer to VMware ESX HCL @ http://www.vmware.com/pdf/vi3_san_guide.pdf

² IBM Director Version 5.2.0 and DS3000 Storage Manager required to be installed on same server.

VMware Guest Operating Systems with DS3400

Description	VMware ESX Server 2.5.4	VMware ESX Server 3.0.1
Linux		
Red Hat Enterprise Linux 3 AS for AMD64/EM64T	Y	Y
Red Hat Enterprise Linux 3 AS for x86	Y	Y
Red Hat Enterprise Linux 3 ES for AMD64/EM64T	Y	Y
Red Hat Enterprise Linux 3 ES for x86	Y	Y
Red Hat Enterprise Linux 4 AS for AMD64/EM64T	Y	-
Red Hat Enterprise Linux 4 AS for x86	Y	-
Red Hat Enterprise Linux 4 ES for AMD64/EM64T	Y	-
Red Hat Enterprise Linux 4 ES for x86	Y	-
SUSE LINUX Enterprise Server 9 for AMD64/EM64T	Y	Y
SUSE LINUX Enterprise Server 9 for x86	Y	Y
SUSE LINUX Enterprise Server 10 for AMD64/EM64T	-	-
SUSE LINUX Enterprise Server 10 for x86	-	-
Microsoft		
Microsoft Windows Server 2003, Web Edition	Y	Y
Microsoft Windows Server 2003/2003 R2, Datacenter Edition	Y	Y
Microsoft Windows Server 2003/2003 R2, Datacenter x64 Edition	Y	Y
Microsoft Windows Server 2003/2003 R2, Enterprise Edition	Y	Y
Microsoft Windows Server 2003/2003 R2, Enterprise x64 Edition	Y	Y
Microsoft Windows Server 2003/2003 R2, Standard Edition	Y	Y
Microsoft Windows Server 2003/2003 R2, Standard x64 Edition	Y	Y
Microsoft Windows Storage Server 2003/2003 R2, Standard Edition	Y	Y
Windows Small Business Server 2003/2003 R2 Premium Edition	Y	Y
NetWare		
NetWare 6.5	-	-

Supported Hard Disk Drives (HDD)

Description	PN (MTM)	PN (Option)	FC	DS3200	DS3300	DS3400
73GB 10K Hot Swap SAS	N/A	40K1039	5163	Y	Y	Y
146GB 10K Hot Swap SAS	N/A	40K1040	5164	Y	Y	Y
300GB 10K Hot Swap SAS	N/A	40K1041	5156	Y	Y	Y
36GB 15K Hot Swap SAS	N/A	40K1042	5160	Y	Y	Y
73GB 15K Hot Swap SAS	N/A	40K1043	5161	Y	Y	Y
146GB 15K Hot Swap SAS	N/A	40K1044	5162	Y	Y	Y
300GB 15K Hot Swap SAS	N/A	43X0802	5532	Y	Y	Y

Warranty and Maintenance Offerings

Description	PN (MTM)	PN (Option)	FC	DS3200	DS3300	DS3400
3-year IOR 9 x 5 Four (4) hour	N/A	44J8067	7249	Y	-	-
3-year IOR 24 x 7 Four (4) hour	N/A	44J8068	7250	Y	-	-
3-year IOR 24 x 7 Two (2) hour	N/A	44J8069	7251	Y	-	-
5-year IOR 24 x 7 Four (4) hour	N/A	44J8070	7252	Y	-	-
5-year IOR 24 x 7 Two (2) hour	N/A	44J8071	7253	Y	-	-
3-year IOR 9 x 5 Four (4) hour	N/A	44J8072	7254	-	Y	Y
3-year IOR 24 x 7 Four (4) hour	N/A	44J8073	7255	-	Y	Y
3-year IOR 24 x 7 Two (2) hour	N/A	44J8074	7256	-	Y	Y
5-year IOR 24 x 7 Four (4) hour	N/A	44J8075	7257	-	Y	Y
5-year IOR 24 x 7 Two (2) hour	N/A	44J8076	7258	-	Y	Y