

IBM® System Storage TS3500 (Machine Type 3584) Tape Library Supported Servers “Interoperability” Matrix

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IBM® System Storage TS3500 (3584) Tape Library

The IBM System Storage TS3500 Tape Library (Machine Type 3584) is supported in the environments shown below. The sales representative and/or customer is responsible for insuring that the specific host system configuration used (i.e. server model, operating system level and host adapter combination) is a valid and supported configuration.

Supported Servers

[IBM System i and i5, eServer™ iSeries™ and](#)

[IBM AS/400®](#)

[IBM System p and p5, eServer pSeries™ and](#)

[IBM RS/6000®](#)

[IBM eServer zSeries® Linux](#)

[IBM System x and Intel™ Based Servers](#)

[Hewlett-Packard Servers](#)

[SUN Servers](#)

TS1120 (3592 Model E05) and 3592 J1A Drive Support in 3584 Tape Library:

For System Storage TS1120 (3592 Model E05), including Encryption and 3592 J1A Enterprise Tape Drive support in the TS3500 (3584) Tape Library Models L23, L22, D23 and D22, see the “Interoperability” tab for IBM TotalStorage 3592 and System Storage TS1120 Enterprise Tape Drives

<http://www.ibm.com/server/storage/tape/3592>

3584 L22/D22 with 3592 J1A Tape Drives or 3584 L52/D52 with LTO Ultrium 2 or Ultrium 3 Tape Drives is supported with IBM Virtualization Engine TS7510:

For details see: <http://www.ibm.com/server/storage/tape/TS7510>

LTO Ultrium Tape Drive Support in TS3500 (3584) Tape Library:

IBM System i and i5, eServer iSeries, and AS/400 Servers

SCSI LTO Ultrium 1 & Ultrium 2 Drive Features in L32 and D32 3584 Frames		
Servers	Operating Systems	Host Adapters
IBM System i Servers	OS/400 V5R1, V5R2 or later	HVD FC 6501 ¹ (Ultrium 1 Only);
	i5/OS V5R3 or later	FC 6534 FC 2729 Ultra PCI; FC 2749 Ultra PCI; LVD FC 5702 Ultra PCI ² FC 5705 FC 5710 PCI-X Ultra 320 FC 5712 PCI-X Ultra 320 FC 5715 FC 5736 PCI-X Disk/Tape Controller w/IOP
Linux Servers	Red Hat Enterprise Linux 4 (i5 only) details ; SUSE Linux Enterprise Server 9 (i5 only) details ;	FC 5710 PCI-X Dual Channel Ultra320 FC 5712 PCI-X Dual Channel Ultra320
Notes		
<ol style="list-style-type: none"> 1. Interposer for AS/400 Feature Code 6501 (Feature code 2895 on the 3584) 2. Requires V5R2 or later 3. For D-mode IPL, the device SCSI address must be set to "0" 		
Fibre Channel: LTO Ultrium 4 TS1040 (3588 Model F4A); LTO Ultrium 1, 2, & 3 Drive Features, including 3588 Model F3B & F3A for Ultrium 3		
Servers	Operating Systems	Host Adapters/SAN
IBM System i Servers	OS/400 V5R1, V5R2 or later	FC HBA Search Tool
	i5/OS V5R3 ² or later	

Linux Servers	Red Hat Enterprise Linux 4 (i5 only) details; SUSE Linux Enterprise Server 9 (i5 only) details;	FC HBA Search Tool
<ol style="list-style-type: none"> Switched Fabric Support requires OS/400 V5R2 or later. V5R1 is loop only. Ultrium 4 Fibre Drive supported with V5R3 or later, Red Hat Enterprise Linux 4 (i5 only), SUSE Linux Enterprise Server 9 and 10 (i5 only). 		

IBM System p or p5, eServer pSeries, and RS/6000 Servers

SCSI LTO Ultrium 1 & Ultrium 2 Drive Features in L32 and D32 3584 Frames		
Servers	Operating Systems	Host Adapters
IBM System p Servers; IBM System p5: 9111-520, 9112-265 9113-550 9114-275, 9115-505, 9116-561, 9117-570 9124-720 9131-52A	AIX 5L version 5.1, 5.2, 5.3 or later for Power-based servers details	IBM FC 6204 HVD Ultra PCI ^{4,5,6} ; FC 6207 HVD Ultra PCI; FC 6205 LVD Ultra2 PCI; FC 6203 LVD/SE Ultra3 (PCI); FC 5703 PCI-X Dual Channel Ultra320 SCSI RAID Adapter; FC 5710 PCI-X Dual Channel Ultra320 SCSI Blind Swap Adapter ^{4,5,6} ; FC 5711 PCI-X Dual Channel Ultra320 SCSI RAID Blind Swap Adapter; FC 5712 PCI-X Dual Channel Ultra320 SCSI Adapter ^{4,5,6} ; FC 5736 PCI-X Disk/Tape Controller w/IOP; FC 1912; Integrated Ultra2 SCSI LVD with VHDCI ¹ ; Integrated Ultra3 SCSI LVD with VHDCI ²
Linux System p (Linux) Servers; IBM System p5: 9111-520, 9112-265 9113-550 9114-275, 9115-505, 9116-561, 9117-570 9124-720 9131-52A	Red Hat Enterprise Linux 3.0, 4; details SUSE LINUX Enterprise Server 8, 9, 10 details Asianux 2.0 details	FC 1904; FC 5710 PCI-X Dual Channel Ultra320 SCSI Blind Swap Adapter ^{4,5,6} ; FC 5712 PCI-X Dual Channel Ultra320 SCSI Adapter ^{4,5,6}
Notes		

1. Integrated LVD adapter with AIX 4.3.3 or higher on 7044 models 170 & 270, pSeries 620 (7025-6F1) & (7025-6F0), 7025 model F80, pSeries 640 (7026-B80), pSeries 660 (7026-6H1) & (7026-6H0) & (7026-6M1), 7026 models H80 & M80. For **6203 & 6204**, pSeries 670 (7040-671) through I/O drawer (7040-61D), pSeries 690 (7040-681) through I/O drawer (7040-61D), 9112-265.
2. Integrated Ultra 3 SCSI LVD adapter with AIX 4.3.3 or higher on pSeries 610 (7028-6C1) & (7028-6E1), 9112-265.
3. Certain restrictions may apply. See the details above for your operating system.
4. Support for pSeries 9111 Model 520, 9113 Model 550 running AIX 5.3, 9117 Model 570 running two partitions AIX 5.2H, AIX 5.3
5. Control Path Failover support for Ultrium 2 & 3592 drives
6. Data Path Failover support for Ultrium 2 & 3592 drives

Fibre Channel: LTO Ultrium 4 TS1040 (3588 Model F4A); LTO Ultrium 1, 2, & 3 Drive Features, including 3588 Model F3B & F3A for Ultrium 3

Servers	Operating Systems	Host Adapters/SAN
IBM System p Servers; IBM System p5: 9111-520, 9112-265 9113-550 9114-275, 9115-505, 9116-561, 9117-570 9124-720 9131-52A	AIX 5L version 5.1, 5.2, 5.3 or later for Power-based servers^{2,3,4,5} details	FC HBA Search Tool
IBM System p (Linux) Servers; IBM System p5: 9111-520, 9112-265 9113-550 9114-275, 9115-505, 9116-561, 9117-570 9124-720 9131-52A	SUSE LINUX Enterprise Server 8^{2,3,4}, 9^{2,3,5}, 10⁵ details details Red Hat Enterprise Linux 4⁵ details Asianux 2.0⁵ details	FC HBA Search Tool

Notes

1. Certain restrictions may apply. See the details above for your operating system.
2. Control Path Failover supported for Ultrium 4, 3 & 2 and 3592 drives
3. Data Path Failover supported for SLES 8 for Ultrium 4, 3 & 2 and 3592 drives
4. Support for pSeries 9111 Model 520, 9113 Model 550 running AIX 5.3, 9117 Model 550 running two partitions AIX 5.2H, AIX 5.3
5. Ultrium 4 Fibre Drive supported with **AIX 5L version 5.1, 5.2, 5.3 or later** , **Red Hat Enterprise**

Linux 4, SUSE LINUX Enterprise Server 9 and 10, Asianux 2.0

IBM System z or z9, eServer zSeries Servers with FCP Channels

Fibre Channel: LTO Ultrium 4 TS1040 (3588 Model F4A); LTO Ultrium 1, 2, & 3 Drive Features, including 3588 Model F3B & F3A for Ultrium 3

Servers	Operating Systems ²	Host Adapters/SAN
IBM System z9; zSeries Models 890 and 990 ³	SUSE LINUX Enterprise Server 8, 9⁵, 10⁵ for IBM zSeries 31-bit and 64-bit Servers. Red Hat Enterprise Linux 4 details	FC HBA Search Tool

1. Supported by the LTO Ultrium 2 Fibre Channel Drive (Feature 1476) or 3588 Model F3A or F3B (LTO Ultrium 3) Drive in TS 3500 (3584) Tape Library.
2. For IBMtape device driver details, see: [readme](#)
3. For zSeries specific information, see: [zSeries FCP Connectivity](#)
4. Control Path Failover supported with Ultrium 4, 3 & 2 and 3592 drives
5. Ultrium 4 Fibre Drive supported with **SUSE LINUX Enterprise Server 9 and 10, Red Hat Enterprise Linux 4**

IBM BladeCenter

Fibre Channel: LTO Ultrium 4 TS1040 (3588 Model F4A); LTO Ultrium 1, 2, & 3 Drive Features, including 3588 Model F3B & F3A for Ultrium 3

Servers	Operating Systems	Host Adapters
JS20	AIX 5.2 and AIX 5.3, Red Hat Enterprise Linux 4, SUSE Linux Enterprise Server 9, 10	QLogic Daughter Card 73P6112
HS20	Red Hat Enterprise Linux 4, SUSE Linux Enterprise Server 9, 10 Windows 2000, Windows 2003	QLogic Daughter Card 13N2203

Notes

1. Tape and disk products must not be attached to the same FC adapter.

IBM System x and Intel Based Servers

SCSI LTO Ultrium 1 & Ultrium 2 Drive Features in L32 and D32 3584 Frames		
Servers	Operating Systems ¹	Host Adapters
Linux Servers	<p>Red Hat Enterprise Linux 3.0, 4 details details</p> <p>SUSE Linux Enterprise Server 8, 9, 10 details details</p> <p>Asianux 2.0 details</p> <p>Other versions details</p>	<p>HVD Adaptec 2944</p> <p>LVD (32bit) Adaptec 29160, 39160 Adaptec 29320, 29320ALP, 39320 Adaptec 2940 U2W IBM #39R8743, #13N2249 (Adaptec 29320ALP), #33L5000, #19K4646, #17P8594</p> <p>LVD (64bit) Adaptec 29320ALP, 39320 IBM #39R8743, #13N2249 (Adaptec 29320ALP), #33L5000, #19K4646, #17P8594</p>
Microsoft™ Windows™ Servers	<p>Windows Server 2003 details Build 3790 or later</p> <p>Windows 2000 Server details Build 2195 or later</p>	<p>HVD Adaptec 2944 Netfinity Adapter #59H3900</p> <p>LVD Adaptec 29160, 29160LP, 39160 Adaptec 39320, 39320D-R, 39320D Adaptec 29320, 29320ALP, 2940, 29940U2W LSI Logic Sym 22910 Netfinity Adapter #19K4646, #17P8594 Netfinity Adapter #33L5000 IBM #13N2249, #39R8743</p>
Notes		
<ol style="list-style-type: none"> 1. Certain restrictions may apply. See the details above for your operating system 2. Control Path Failover supported for Ultrium 2 and 3592 drives with Linux 3. Data Path Failover supported for Ultrium 2 and 3592 drives with Linux 		
Fibre Channel: LTO Ultrium 4 TS1040 (3588 Model F4A); LTO Ultrium 1, 2, & 3 Drive Features, including 3588 Model F3B & F3A for Ultrium 3		
Servers	Operating Systems ¹	Host Adapters/SAN
Linux Servers	<p>Red Hat Enterprise Linux 3.0, 4 details details</p> <p>SUSE LINUX Enterprise Server 8, 9⁴, 10⁴ details details</p>	FC HBA Search Tool

	Asianux 2.0⁴ details Other versions details	
Microsoft Windows Servers	Windows Server 2003⁴ details Build 3790 or later Windows 2000 Server details Build 2195 or later Windows NTTM Server 4 details SP 6 or later (Ultrium 1 only)	FC HBA Search Tool
Notes		
<ol style="list-style-type: none"> 1. Certain restrictions may apply. See the details above for your operating system 2. Control Path Failover supported for Ultrium 3 & 2 and 3592 drives with Linux 3. Data Path Failover supported for Ultrium 3 & 2 and 3592 drives with Linux 4. Ultrium 4 Fibre Drive supported on Red Hat Enterprise Linux 4, SUSE LINUX Enterprise Server 9 and 10, Asianux 2.0, Windows Server 2003 build 3790 or later 		

AMD OPTERON Systems

SCSI LTO Ultrium 1 & 2 LVD Drive Features in L32 and D32 3584 Frames		
Servers	Operating Systems ¹	Host Adapters
Linux Servers	Red Hat Enterprise Linux 4 details SUSE Linux Enterprise Server 9, 10 details Asianux 2.0 details Other versions details	LVD Adaptec 29320, 29320ALP, 39320 IBM # 39R8743
MicrosoftTM WindowsTM Servers	Windows Server 2003 details Build 3790 or later	LVD Adaptec 29160, 39160 Adaptec 29320ALP, 39320, 39320D-R, 39320-R Adaptec AHA-29940U2W LSI Logic SYM 22910 Netfinity Adapter #33L5000 IBM #39R8743, #13N2249 (Adaptec 29320ALP), #33L5000, #19K4646, #17P8594
Notes		

4. Certain restrictions may apply. See the details above for your operating system

Fibre Channel: LTO Ultrium 4 TS1040 (3588 Model F4A); LTO Ultrium 1, 2, & 3 Drive Features, including 3588 Model F3B & F3A for Ultrium 3

Servers	Operating Systems ¹	Host Adapters/SAN
Linux Servers	Red Hat Enterprise Linux 4² details SUSE Linux Enterprise Server 9², 10² details Asianux 2.0² details Other versions details	FC HBA Search Tool
Microsoft Windows Servers	Windows Server 2003² details Build 3790 or later	FC HBA Search Tool

Notes

1. Certain restrictions may apply. See the details above for your operating system
2. Ultrium 4 Fibre Drive supported on **Red Hat Enterprise Linux 4, SUSE Linux Enterprise Server 9 and 10, Asianux 2.0, Windows Server 2003 build 3790 or later**

Hewlett-Packard Servers

SCSI LTO Ultrium 1 & 2 Drive Features in L32 and D32 3584 Frames

Servers	Operating Systems	Host Adapters
HP A, L, N, V Class or rp2xxx, rp54xx, rp74xx, rp84xx series HP: ³ rx1600, 1620, rx2600, 2610, rx4640, 5670	HP-UX 11.0, 11.11, 11.23PI HP-UX 11iv1, 11i v2	HVD HP A4800A, HP A5159A LVD HP A5149A HP A5150A HP A6828A ^{2,3} HP A6829A ^{2,3} HP A7173A

Notes

1. For details and guidelines, please see the [readme](#) file for your operating system.
2. Requires Patch 30511 for HP 11i or Patch 30509 for HP 11.0

3. Itanium 2 servers
4. HP-UX 11i: driver level: scsiU320-00 B.11.11.02; HP-UX 11i v2 (PA-RISC): driver level: scsiU320-00 B.11.23.02; HP-UX 11i v2 (Itanium 2): driver level: scsiU320-00 B.11.23.02

Fibre Channel: LTO Ultrium 4 TS1040 (3588 Model F4A); LTO Ultrium 1, 2, & 3 Drive Features, including 3588 Model F3B & F3A for Ultrium 3

Servers	Operating Systems	Host Adapters/SAN
HP A, L, N, V Class or rp2xxx, rp54xx, rp74xx, rp84xx series HP: ² rx1600, 1620, rx2600, 2610, rx4640, 5670	HP-UX 11.0, 11.11, 11.23 PI patch PHKL 21834 for N-Class patch PHKL 22903 for L-Class HP-UX 11iv1³, 11i v2³	FC HBA Search Tool
HP Alpha Servers	Tru64 UNIX Version 5.1A (Revision 1885) details	KGPSA-CA (Emulex LP8000); FCA2354 (Emulex LP9000) FC HBA Search Tool

1. For details and guidelines, please see the [readme](#) file for your operating system.
2. Itanium 2 servers
3. Ultrium 4 Fibre Drive supported on **HP-UX 11iv1, 11i v2**

SUN Servers

SCSI LTO Ultrium 1 & Ultrium 2 Drive Features for L32 and D32 3584 Frames		
Servers	Operating Systems	Host Adapters
SUN SPARC, UltraSPARC or Ultra/Enterprise Servers	Solaris 7, 8, 9 and 10 details	Sun X1062A, Sun X1065A Sbus Sun X6541A PCI, Dual VHDCI, Sun X2222A PCI, Sun X6758A
Notes		
1. Certain restrictions may apply. See the details above for your operating system.		

2. Control Path Failover supported for Ultrium 2 and 3592 drives for Solaris 8 & 9

Fibre Channel: LTO Ultrium 4 TS1040 (3588 Model F4A); LTO Ultrium 1, 2, & 3 Drive Features, including 3588 Model F3B & F3A for Ultrium 3

Servers	Operating Systems	Host Adapters
SUN SPARC, UltraSPARC or Ultra/Enterprise Servers	Solaris 7, 8 ⁴ , 9 ⁴ and 10 ⁴ details	FC HBA Search Tool

Notes

1. Certain restrictions may apply. See the details above for your operating system
2. Control Path Failover supported for Ultrium 4, 3 & 2 and 3592 drives with Solaris 8 & 9
3. Data Path Failover supported for Ultrium 4, 3, & 2 and 3592 with Solaris 8 & 9; Load balancing not supported for Solaris
4. Ultrium 4 Fibre Drive supported on **Solaris 8, 9 and 10**

Network Attached Storage

SCSI LTO Ultrium 1 & Ultrium 2 LVD Drive Features for L32 and D32 3584 Frames

Servers	Operating Systems	Host Adapters
NAS Gateway 500	NAS Gateway 500 System Software	Onboard LVD SCSI interface

Notes

Fibre Channel: LTO Ultrium 4 TS1040 (3588 Model F4A); LTO Ultrium 1, 2, & 3 Drive Features, including 3588 Model F3B & F3A for Ultrium 3

Servers	Operating Systems	Host Adapters
NAS Gateway 500	NAS Gateway 500 System Software	FC 6239 or 6240

Notes

1. Tape and disk products must not be attached to the same FC adapter.

Control Path Failover/Data Path Failover

Feature Code 1680 – Control Path Failover

Operating Systems Supported	
	AIX 5.1, 5.2, 5.3, Sun Solaris 8, 9, SUSE LINUX Enterprise Server 8, 9, 10 Red Hat Enterprise Linux 3.0, 4 HP-UX 11.0, 11i, 11.23PI, Windows 2000 and 2003
Notes	
Feature Code 1681 – Data Path Failover	
Operating Systems Supported	
	AIX 5.1, 5.2, 5.3, Sun Solaris 8, 9, SUSE LINUX Enterprise Server 8, 9, 10 Red Hat Enterprise Linux 3.0, 4
Notes	

Related Links

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