

IBM® System Storage® **TS2340**, TS2230 and 3580 LTO Ultrium Tape Drive

Supported Servers “Interoperability” Matrix

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IBM System Storage TS2340, TS2230 and 3580 LTO Ultrium Tape Drive

The IBM System Storage TS2340, TS2230, and 3580 LTO Ultrium Tape Drive is supported in the environments shown below. The sales representative and/or the customer are 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.

For the latest firmware and device drivers use the links on the left or at the bottom of this document.

Supported Servers

[Hewlett-Packard Servers](#)

[IBM System i and i5, eServer™ iSeries™ and AS/400®](#)

[IBM System p and p5, eServer pSeries™ and RS/6000®](#)

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

[AMD Opteron Systems](#)

[SUN Servers](#)

[Network Attached Storage](#)

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

SCSI: LTO Ultrium 4 LVD Models L43, L4X; LTO Ultrium 3, 2 & 1 LVD Models Lxx; LTO Ultrium 3 HH LVD Model H3L, L3E; LTO Ultrium 2 & 1 HVD Models Hxx

Servers	Operating Systems	Host Adapters
IBM System i Servers	OS/400 V5R1, V5R2 ³ i5/OS V5R3 ⁴ or later	HVD FC 6534 FC 2729 Ultra PCI; FC 2749 Ultra PCI; LVD FC 5702 Ultra PCI 1 ⁴ FC 5705 ⁴ FC 5710 PCI-X Ultra 320 ³ FC 5712 PCI-X Ultra 320 ^{3,4} FC 5715 ⁴ FC 571A ⁴

		FC 5736 PCI-X Disk/Tape Controller w/IOP ^{3,4}
Linux Servers	Red Hat Enterprise Linux 4; SUSE Linux Enterprise Server 9 (i5 only)	FC 5710 PCI-X Dual Channel Ultra320, FC 5712 PCI-X Dual Channel Ultra320
Notes		
<ol style="list-style-type: none"> 1. Requires V5R2 or later for Ultrium 3 L3x models 2. For D-mode IPL, the device SCSI address must be set to "0" 3. 3580 L33/L3H and H3L (Ultrium 3) supported, requires V5R2 or later; No HVD support for Ultrium 3 4. Ultrium 4 SCSI Drives supported on i5/OS V5R3 or later, Red Hat Enterprise Linux 4 (i5 only), SUSE Linux Enterprise Server 9 (i5 only) 		

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

SCSI: LTO Ultrium 4 LVD Models L43, L4X; LTO Ultrium 3, 2 & 1 LVD Models Lxx; LTO Ultrium 3 HH LVD Model H3L, L3E; LTO Ultrium 2 & 1 HVD Models Hxx		
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 ⁵ for Power-based servers details	IBM FC 6204 HVD Ultra PCI; FC 6207 HVD Ultra PCI; FC 6205 LVD Ultra2 PCI ^{4,5} ; FC 6203 LVD/SE Ultra3 (PCI) ⁵ ; FC 5703 PCI-X Dual Channel Ultra320 SCSI RAID Adapter; FC 5710 PCI-X Dual Channel Ultra320 SCSI Blind Swap Adapter ^{4,5} ; FC 5711 PCI-X Dual Channel Ultra320 SCSI RAID Blind Swap Adapter; FC 5712 PCI-X Duall Channel Ultra320 SCSI Adapter ^{4,5} ; FC 5736 LVD ⁵ ; FC 1912 LVD ⁵ ; FC 1974 LVD ⁵ ; Integrated Ultra2 SCSI LVD with VHDCI ^{1,4} ; Integrated Ultra3 SCSI LVD with VHDCI ^{2,4}
IBM System p (Linux) Servers; IBM System p5: 9111-520,	Red Hat Enterprise Linux 3 details ; Red Hat Enterprise Linux 4⁵ details ;	FC 1904 LVD, FC 1974 LVD ⁵ , FC 5710 PCI-X Dual Channel Ultra320 ⁵ , FC 5712 PCI-X Dual Channel Ultra 320 ⁵

9112-265 9113-550 9114-275, 9115-505, 9116-561, 9117-570 9124-720 9131-52A	SUSE Linux Enterprise Server 8 details , SUSE Linux Enterprise Server 9⁵ and 10⁵ details ; Asianux 2.0⁵ details	FC 5736 LVD ⁵ ; FC 1912 LVD ⁵ ;
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Notes
<ol style="list-style-type: none"> 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. 3580 L33/L3H and H3L (Ultrium 3) supported; No HVD support for Ultrium 3 5. Ultrium 4 SCSI Drives supported on AIX 5L version 5.1, 5.2, 5.3 or later, Red Hat Linux 4, SUSE Linux Enterprise Server 9 and 10, Asianux 2.0, Windows Server 2003 build 3790 or later

IBM System x and Intel Based Servers

SAS: LTO Ultrium 4 SAS Models S43, S4X		
Servers	Operating Systems ¹	Host Adapters
Linux Servers	Red Hat Linux 4² details SUSE Linux Enterprise Server 9² and 10² details Asianux 2.0² details Other versions details	(32bit) LSI Logic SAS3800X PCI-X IBM SAS HBA Controller #25R80604
Microsoft™ Windows™ Servers	Windows Server 2003² details Build 3790 or later Windows 2003 SP1² Windows 2003 R2²	(32bit) LSI Logic SAS3800X PCI-X IBM SAS HBA Controller #25R80604
Notes		
<ol style="list-style-type: none"> 1. Certain restrictions may apply. See the details above for your operating system 		

2. Ultrium 4 SAS Drives supported on **Red Hat Linux 4, SUSE Linux Enterprise Server 9 and 10, Asianux 2.0, Windows Server 2003 build 3790 or later**

SCSI: LTO Ultrium 4 LVD Models L43, L4X; LTO Ultrium 3, 2 & 1 LVD Models Lxx; LTO Ultrium 3 HH LVD Model H3L, L3E; LTO Ultrium 2 & 1 HVD Models Hxx

Servers	Operating Systems ¹	Host Adapters
Linux Servers	<p>Red Hat Advanced Server Enterprise Linux 3 details</p> <p>Red Hat Enterprise Linux 4⁴ details</p> <p>SUSE Linux Enterprise Server 8 details</p> <p>SUSE Linux Enterprise Server 9⁴ and 10⁴ details</p> <p>Asianux 2.0⁴ details</p> <p>Other versions details</p>	<p>HVD Adaptec 2944</p> <p>LVD (32bit) Adaptec 29160^{2,3,4}, 39160^{2,3,4} Adaptec 39320⁴, 39320-R², 39320D-R² Adaptec 29320, 29320ALP⁴, 2940^{2,4}</p> <p>IBM #39R8743⁴, #13N2249 (Adaptec 29320ALP)⁴, #33L5000, #19K4646, #17P8594</p> <p>LVD (64bit) Adaptec 29320, 29320ALP⁴, 39320⁴ IBM #39R8743⁴, #13N2249 (Adaptec 29320ALP)⁴, #33L5000, #19K4646, #17P8594</p>
Microsoft™ Windows™ Servers	<p>Windows Server 2003^{2,4} details Build 3790 or later</p> <p>Windows 2000 Server² details Build 2195 or later</p> <p>Windows NT™ Server 4³ details SP 6 or later (Ultrium 1 only)</p>	<p>HVD Adaptec 2944 IBM #59H3900</p> <p>LVD Adaptec 29160^{2,4}, 29160LP, 39160^{2,4} Adaptec 39320⁴, 39320-R², 39320D-R² Adaptec 29320, 29320ALP⁴, 29940U2W, 2940^{2,4} LSI Logic Sym 22910^{2,4} IBM #39R8743⁴. #13N2249⁴ (Adaptec 29320ALP)⁴, #33L5000, #19K4646, #17P8594</p>

Notes

1. Certain restrictions may apply. See the details above for your operating system
2. 3580 L33/L3H and H3L (Ultrium 3 HH) supported; No HVD support for Ultrium 3
3. Ultrium 1 supported
4. Ultrium 4 SCSI drives supported on **Red Hat 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 4 LVD Models L43, L4X; LTO Ultrium 3, 2 & 1 LVD Models Lxx; LTO Ultrium 3 HH LVD Model H3L, L3E; LTO Ultrium 2 & 1 HVD Models Hxx		
Servers	Operating Systems ¹	Host Adapters
Linux Servers	Red Hat Enterprise Linux 4³ details SUSE Linux Enterprise Server 9³ and 10³ details Asianux 2.0³ details Other versions details	LVD Adaptec 29320, 29320ALP ³ , 39320 ³ IBM # 39R8743 ³
Microsoft™ Windows™ Servers	Windows Server 2003³ details Build 3790 or later	LVD Adaptec 29160, 39160 Adaptec 29320ALP ³ , 39320 ³ , 39320D-R, 39320-R Adaptec AHA-29940U2W LSI Logic SYM 22910 Netfinity Adapter #33L5000 IBM #39R8743 ³ , #13N2249 (Adaptec 29320ALP) ³ , #33L5000, #19K4646, #17P8594
Notes		
<ol style="list-style-type: none"> 1. Certain restrictions may apply. See the details above for your operating system 2. 3580 L33/L3H and H3L (Ultrium 3) supported; No HVD support for Ultrium 3 3. Ultrium 4 SCSI drives supported on Red Hat 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 4 LVD Models L43, L4X; LTO Ultrium 3, 2 & 1 LVD Models Lxx; LTO Ultrium 3 HH LVD Model H3L, L3E; LTO Ultrium 2 & 1 HVD Models Hxx		
Servers	Operating Systems	Host Adapters
HP A, L, N, V Class or rp2xxx, rp54xx,	HP-UX 11.0, 11.11, 11.23PI HP-UX 11iv1⁶, 11i v2⁶	HVD HP A4800A LVD

rp74xx, rp84xx series HP ⁴ rx1600, 1620 rx2600, 2620 rx4640, 5670		HP A5149A ⁶ HP A5150A ⁶ HP A6828A ^{3,4,6} HP A6829A ^{3,4,6} HP A7173A Dual Channel PCI-X Ultra320 SCSI ^{5,6}
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Notes

1. For details and guidelines, please see the [readme](#) file for your operating system
2. 3580 L33/L3H and H3L (Ultrium 3) supported; No HVD support for Ultrium 3
3. Requires Patch 30511 for HP 11i or Patch 30509 for HP 11.0
4. Itanium 2 servers
5. 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
6. Ultrium 4 SCSI drives supported on **HP-UX 11iv1, 11i v2**

SUN Servers

SCSI: LTO Ultrium 4 LVD Models L43, L4X; LTO Ultrium 3, 2 & 1 LVD Models Lxx; LTO Ultrium 3 HH LVD Model H3L, L3E; LTO Ultrium 2 & 1 HVD Models Hxx

Servers	Operating Systems	Host Adapters
SUN SPARC , UltraSPARC or Ultra/Enterprise Servers	Solaris 8 ³ , 9 ³ and 10 ³ details	HVD Sun X1065A Sbus Sun X6541A PCI LVD Sun X2222A PCI ^{2,3} , Sun X4422A ³ , Sun X6758A ³

Notes

1. Certain restrictions may apply. See the details above for your operating system
2. 3580 L33/L3H and H3L (Ultrium 3) supported; No HVD support for Ultrium 3
3. Ultrium 4 SCSI drives supported on **Solaris** 8, 9 and 10

Network Attached Storage

SCSI: LTO Ultrium 4 LVD Models L43, L4X; LTO Ultrium 3, 2 & 1 LVD Models Lxx; LTO Ultrium 3 HH LVD Model H3L, L3E; LTO Ultrium 2 & 1 HVD Models Hxx

Servers	Operating Systems	Host Adapters
IBM System Storage N5200 and N5500 ^{1 2 3}	Data ONTAP™	Integrated LVD SCSI port ⁴

NAS Gateway 500	NAS Gateway 500 System Software	Onboard LVD SCSI interface
Notes		
<ol style="list-style-type: none"> 1. Data ONTAP version 7.1H2 must be installed for tape support. 2. For LTO2, fix IBM_LTO2_ULT3580.TCF is required. 3. For LTO3, fix IBM_LTO3_ULT3580.TCF is required. 4. For details of IBM tape support for the IBM System Storage N5200 and N5000, see the IBM System Storage N3700, N5200 and N5500 Interoperability Matrix 		

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