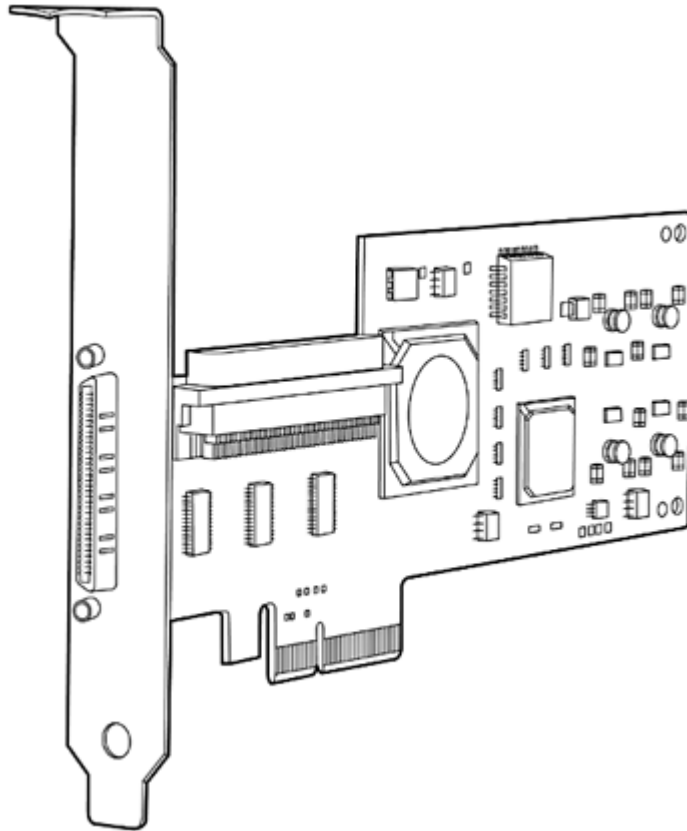


### Overview

The HP SC11Xe Host Bus Adapter provides customers with the flexibility and speed they have come to expect from HP. This HBA is ideal for HP tape customers needing to attach Ultra320 tape backup devices on servers using the PCI-Express interface, and provides support for Ultra320 SCSI, Wide Ultra3 SCSI, and Wide Ultra2 SCSI protocols. It is the primary building block for SCSI backup solutions that provide the maximum of 320 MB/second bandwidth, twice the speed of previous-generation SCSI adapters.



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### Models

HP SC11Xe Host Bus Adapter

412911-B21

### Standard Features

#### Performance

The HP SC11Xe Host Bus Adapter provides support for tape drives while only taking up a single PCI Express slot. The adapter delivers exceptional system performance, utilizing a single Ultra320 SCSI channel that provides x4 PCI-e capabilities, transferring data up to 320 MB/s between the storage subsystem and system memory.

**HP Integration** Fully integrated and tested with ProLiant 300 series servers, ProLiant 500 series servers, HP DAT tape drives, Ultrium tape drives, SDLT tape drives, VS tape drives, DAT autoloaders and MSL Libraries

**Tagged Command Queuing** Improves performance by accepting commands simultaneously, sorting efficiently and minimizing response time.

**Suggested Solutions** The HP SC11Xe Host Bus Adapter is a cost effective solution and ideal for HP tape drives on ProLiant servers

#### Compatibility

**Servers** Fully integrated and tested with selected HP ProLiant servers and HP tape drives.

- **ProLiant DL (rack-optimized):**
  - HP ProLiant DL120 G5
  - HP ProLiant DL140 G3
  - HP ProLiant DL145 G3
  - HP ProLiant DL160 G5
  - HP ProLiant DL165 G5
  - HP ProLiant DL180
  - HP ProLiant DL180 G5
  - HP ProLiant DL185 G5
  - HP ProLiant DL320 G4
  - HP ProLiant DL320 G5
  - HP ProLiant DL320 G5p
  - HP ProLiant DL320s
  - HP ProLiant DL360 G5
  - HP ProLiant DL365
  - HP ProLiant DL365 G5
  - HP ProLiant DL380 G5
  - HP ProLiant DL385 G2
  - HP ProLiant DL385 G5
  - HP ProLiant DL580 G4
  - HP ProLiant DL580 G5
  - HP ProLiant DL585 G2
  - HP ProLiant DL585 G5
- **ProLiant ML (expansion-optimized):**
  - HP ProLiant ML110 G3
  - HP ProLiant ML110 G4
  - HP ProLiant ML110 G5
  - HP ProLiant ML115
  - HP ProLiant ML115 G5
  - HP ProLiant ML150 G3
  - HP ProLiant ML150 G5
  - HP ProLiant ML310 G3
  - HP ProLiant ML310 G4
  - HP ProLiant ML310 G5
  - HP ProLiant ML350 G5

### Standard Features

- HP ProLiant ML370 G5
- HP ProLiant ML570 G4

**NOTE:** This is a list of supported servers. Some may be discontinued.

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### Option Kit Contents

- HBA
  - RTF Cards
  - Low profile bracket
- 

### Warranty

**Maximum:** The remaining warranty of the HP product in which it is installed (to a maximum one-year limited warranty, parts only)

**Minimum:** One-year parts only warranty.

**NOTE:** Certain restrictions and exclusions apply. Consult the Customer Support Center at 1-800-345-1518 for details.

### Related Options

**NOTE:** This is a list of supported options - some may be discontinued.

#### Tape Drives

**NOTE:** For the complete listing of Tape Drive offerings, please see:  
<http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html>

#### DAT Tape Drives

HP StorageWorks DAT 40 SCSI Internal Tape Drive (Carbon)	C5686C
HP StorageWorks DAT 40 SCSI External Tape Drive (Carbon)	C5687D
HP StorageWorks DAT 40 SCSI Array Module (Carbon)	C7497C
HP StorageWorks DAT 72 SCSI Internal Tape Drive (Carbon)	Q1522B
HP StorageWorks DAT 72 SCSI External Tape Drive (Carbon)	Q1523B
HP StorageWorks DAT 72 SCSI Array Module (Carbon)	Q1524C
HP StorageWorks DAT 160 SCSI Internal Tape Drive	Q1573A
HP StorageWorks DAT 160 SCSI External Tape Drive	Q1574A
HP StorageWorks DAT 160 SCSI Array Module	Q1575A

#### Ultrium Tape Drives

HP StorageWorks LTO-1 Ultrium 232 Internal Tape Drive (Carbonite)	DW064A
HP StorageWorks LTO-1 Ultrium 232 External Tape Drive (Carbonite)	DW065B
HP StorageWorks LTO-2 Ultrium 448 SCSI Internal Tape Drive (Carbonite)	DW016A
HP StorageWorks LTO-2 Ultrium 448 SCSI External Tape Drive (Carbonite)	DW017B
HP StorageWorks LTO-2 Ultrium 448 SCSI Array Module (Carbonite)	DW019A
HP StorageWorks 1U SCSI Rack-mount kit with one LTO-2 Ultrium 448 SCSI Tape Drive (Carbonite)	DW028B
HP StorageWorks LTO-3 Ultrium 920 SCSI Internal Tape Drive	EH841A
HP StorageWorks LTO-3 Ultrium 920 SCSI External Tape Drive	EH842A
HP StorageWorks 1U SCSI Rack-mount kit with one LTO-3 Ultrium 920	EH903A
HP StorageWorks LTO-3 Ultrium 960 Internal Tape Drive (Carbonite)	Q1538A
HP StorageWorks LTO-3 Ultrium 960 External Tape Drive (Carbonite)	Q1539B
HP StorageWorks LTO-3 Ultrium 960 Array Module (Carbonite)	Q1540A
HP StorageWorks 3U SCSI Rack-mount kit with one LTO-3 Ultrium 960 (Carbonite)	Q1595B
HP StorageWorks LTO-4 Ultrium 1840 SCSI Internal Tape Drive	EH853A
HP StorageWorks LTO-4 Ultrium 1840 SCSI External Tape Drive	EH854A
HP StorageWorks LTO-4 Ultrium 1840 SCSI Array Module	EH856A
HP StorageWorks 3U SCSI Rack-Mount with 1 LTO-4 Ultrium 1840 Tape Drive	EH926A

#### DLT VS/SDLT Tape Drives

HP StorageWorks DLT VS160 Internal Tape Drive (Carbon)	A7569B
HP StorageWorks DLT VS160 External Tape Drive (Carbon)	A7570B
HP StorageWorks SDLT 600 Internal Tape Drive (Carbon)	A7518B
HP StorageWorks SDLT 600 External Tape Drive (Carbon)	A7519B
HP StorageWorks SDLT 600 External Tape Drive (Carbon)	A7520B

#### Rack-Mount Tape Drive Enclosures

### Related Options

HP StorageWorks 1U SCSI Rack-Mount kit	A7445B
<b>NOTE:</b> The 1U Rack-Mount Kit can support up to (2) half-height tape drives and is compatible with multiple Single-Ended and LVD SCSI tape drives including the DAT 40, DAT 72, DAT 160, DLT VS160, LTO-1 Ultrium 232, LTO-2 Ultrium 448 and LTO-3 Ultrium 920 tape drives.	
HP StorageWorks 3U Rack-mount kit	274338-B22
<b>NOTE:</b> The 3U Rack-mount Kit can support up to (2) full-height or (4) half-height tape drives and compatible with multiple LVD SCSI tape drives including DAT 40, DAT 72, DAT 160, DLT VS160, SDLT 600, LTO-1 Ultrium 232, LTO-2 Ultrium 460, LTO-2 Ultrium 448, LTO-3 Ultrium 920, LTO-3 Ultrium 960 and LTO-4 Ultrium 1840 tape drives.	

### Tape Autoloaders

#### HP StorageWorks DAT Autoloader

HP StorageWorks DAT 72x10 tape autoloader	AE313B
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#### HP StorageWorks 1/8 Tape Autoloader

HP StorageWorks 1/8 G2 LTO-3 Ultrium 920 Tape Autoloader	AH165A
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HP StorageWorks 1/8 G2 LTO-2 Ultrium 448 Tape Autoloader	AH164A
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HP StorageWorks 1/8 G2 LTO-1 Ultrium 232 Tape Autoloader	AH163A
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**NOTE:** Please reference the [Tape Autoloader QuickSpecs](#) at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>

### Tape Libraries

#### HP StorageWorks MSL2024 Tape Library

HP StorageWorks MSL2024 1 LTO-4 Ultrium 1840 SCSI Drive Library	AJ033A
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HP StorageWorks MSL2024 1 LTO-3 Ultrium 960 SCSI Drive Library	AG115A
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HP StorageWorks MSL2024 1 LTO-3 Ultrium 920 SCSI Drive Library	AH169A
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HP StorageWorks MSL2024 2 LTO-3 Ultrium 920 SCSI Drive Library	AH170A
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HP StorageWorks MSL2024 1 LTO-2 Ultrium 448 SCSI Drive Library	AG116A
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HP StorageWorks MSL2024 2 LTO-2 Ultrium 448 SCSI Drive Library	AG117A
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#### HP StorageWorks MSL4048 Tape Library

HP StorageWorks MSL4048 1 LTO-4 Ultrium 1840 SCSI Drive Library	AJ035A
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HP StorageWorks MSL4048 2 LTO-4 Ultrium 1840 SCSI Drive Library	AJ037A
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HP StorageWorks MSL4048 1 LTO-3 Ultrium 960 SCSI Drive Library	AG322A
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HP StorageWorks MSL4048 2 LTO-3 Ultrium 960 SCSI Drive Library	AG323A
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HP StorageWorks MSL4048 1 LTO-3 Ultrium 920 SCSI Drive Library	AH171A
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HP StorageWorks MSL4048 2 LTO-3 Ultrium 920 SCSI Drive Library	AH172A
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HP StorageWorks MSL4048 1 LTO-2 Ultrium 448 SCSI Drive Library	AG320A
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HP StorageWorks MSL4048 2 LTO-2 Ultrium 448 SCSI Drive Library	AG321A
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#### HP StorageWorks MSL8096 Tape Library

HP StorageWorks MSL8096 2 LTO-4 Ultrium 1840 SCSI Drive Library	AJ039A
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HP StorageWorks MSL8096 2 LTO-3 Ultrium 960 SCSI Drive Library	AH219A
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#### HP StorageWorks MSL6000 Tape Library



### Related Options

#### LTO-3 Ultrium 960 technology

HP StorageWorks MSL6030 1 LTO-4 Ultrium 1840 SCSI Drive Library	AJ029A
HP StorageWorks MSL6030 1 LTO-3 Ultrium 960 SCSI Drive Library	AD606B
HP StorageWorks MSL6030 2 LTO-3 Ultrium 960 SCSI Drive Library	AD607B
HP StorageWorks MSL6060 2 LTO-4 Ultrium 1840 SCSI Drive Library	AJ031A
HP StorageWorks MSL6060 2 LTO-3 Ultrium 960 SCSI Drive Library	AD610B

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Internal Cables	LVD cable (U320)	166389-B21
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### Technical Specifications

SCSI Protocols	Ultra320 Wide Ultra3 SCSI (Ultra160) Wide Ultra2 SCSI Ultra SCSI
Electrical Protocol	Low Voltage Differential (LVD)
Data Transfer Method	x4 PCI-e
Maximum SCSI Transfer Rate	320 MB/s
Operating System Support	Windows 2000 (Server/Advanced Server) Windows Server 2003, Enterprise Edition (32 bit) Windows Server 2003, Standard Edition (32 bit) and Storage Server Editions Windows Server 2003, for 64 bit Extended Systems Enterprise, Standard and Storage Server Editions Microsoft Windows Server 2008 Red Hat Enterprise Linux SUSE Linux Enterprise Server Windows Small Business Edition Novell Netware 6.5, 6.0  <b>NOTE:</b> For more Linux OS support & certification information, please visit our the ProLiant & BladeSystem Server Linux matrix: <a href="http://h18004.www1.hp.com/products/servers/linux/hplinuxcert.html">http://h18004.www1.hp.com/products/servers/linux/hplinuxcert.html</a>
External SCSI Connectors	One 68-Pin VHDCI connector.
Internal SCSI Connectors	One SCSI-3 (68-Pin)

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Environment-friendly Products and Approach	<b>End-of-life Management and Recycling</b>	Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> . To recycle your product, please go to: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.  The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> . These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.
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For hard drives, 1 GB = 1 billion bytes. Actual formatted capacity is less.