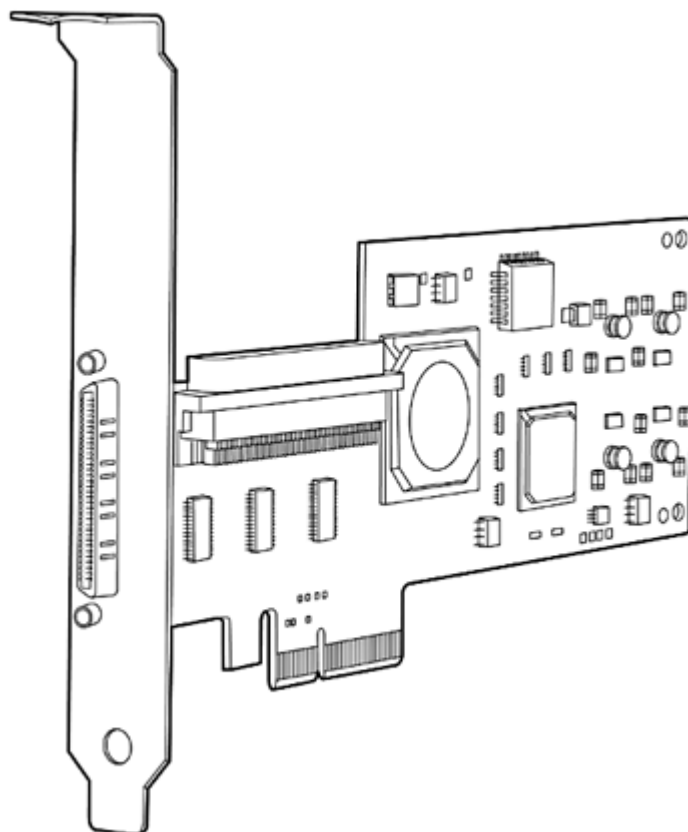


Overview

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.



Models

HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter

412911-B21

HP Integrity PCI-E Ultra320 SCSI Adapter

AT134A

Kit Contents

- HBA
- RTF Cards
- Low profile bracket

Compatibility

Compatibility

HP ProLiant Server Support

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 DL160 G6
- HP ProLiant DL160se G6
- HP ProLiant DL160 Gen8
- HP ProLiant DL165 G5
- HP ProLiant DL165 G6
- HP ProLiant DL165 G7
- HP ProLiant DL170e G6
- HP ProLiant DL170h G6
- HP ProLiant DL180
- HP ProLiant DL180 G5
- HP ProLiant DL180 G6
- HP ProLiant DL185 G5
- HP ProLiant DL320 G4
- HP ProLiant DL320 G5
- HP ProLiant DL320 G5p
- HP ProLiant DL320 G6
- HP ProLiant DL320e Gen8
- HP ProLiant DL320s
- HP ProLiant DL360 G5
- HP ProLiant DL360 G6
- HP ProLiant DL360 G7
- HP ProLiant DL360e Gen8
- HP ProLiant DL360p Gen8
- HP ProLiant DL365
- HP ProLiant DL365 G5
- HP ProLiant DL380 G5
- HP ProLiant DL380 G6
- HP ProLiant DL380 G7
- HP ProLiant DL380e Gen8
- HP ProLiant DL380p Gen8
- HP ProLiant DL385 G2
- HP ProLiant DL385 G5
- HP ProLiant DL385 G6
- HP ProLiant DL385 G7
- HP ProLiant DL385p Gen8
- HP ProLiant DL560 Gen8
- HP ProLiant DL580 G4
- HP ProLiant DL580 G5
- HP ProLiant DL580 G7
- HP ProLiant DL585 G2
- HP ProLiant DL585 G5
- HP ProLiant DL585 G6

Compatibility

- HP ProLiant DL585 G7
- HP ProLiant DL785 G5
- HP ProLiant DL785 G6
- **ProLiant ML (expansion-optimized):**
 - HP ProLiant ML110 G3
 - HP ProLiant ML110 G4
 - HP ProLiant ML110 G5
 - HP ProLiant ML110 G6
 - HP ProLiant ML115
 - HP ProLiant ML115 G5
 - HP ProLiant ML150 G3
 - HP ProLiant ML150 G5
 - HP ProLiant ML150 G6
 - HP ProLiant ML310 G3
 - HP ProLiant ML310 G4
 - HP ProLiant ML310 G5
 - HP ProLiant ML310 G5p
 - HP ProLiant ML310e Gen8
 - HP ProLiant ML330 G6
 - HP ProLiant ML350 G5
 - HP ProLiant ML350 G6
 - HP ProLiant ML350e Gen8
 - HP ProLiant ML350p Gen8
 - HP ProLiant ML370 G5
 - HP ProLiant ML570 G4
- **ProLiant SL (scalable line):**
 - HP ProLiant SL160z G6
 - HP ProLiant SL165z G6
 - HP ProLiant SL165z G7
 - HP ProLiant SL170s G6
 - HP ProLiant SL170z G6
 - HP ProLiant SL2x170z G6
 - HP ProLiant SL390s G7

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

HP Integrity Server Support

- HP Integrity rx2800 i2 Server

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

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 servers, HP Integrity rx2800 i2 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 and HP Integrity rx2800 i2 server.

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.

Service and Support

Service and Support

HP Care Pack Services: Packaged server and storage services for increased uptime, productivity and ROI

When you buy HP server and storage products and solutions, it's also a good time to think about what levels of support you may need. Our portfolio of service options reduce deployment and management worries while helping you get the most out of your server and storage investments. We take a holistic approach to your environment, bridging servers, blades, storage, software and network infrastructures with our packaged HP Care Pack Services for servers and storage.

Protect your business beyond warranty

When it comes to robustness and reliability, standard computing equipment warranties have matured along with technology. Good news that can also create problems stemming from depending on standard warranties designed to only protect against product defects and some downtime causes. Using a standard approach to warranty uplifts, such as HP Care Pack Services, helps reduce downtime risks and provides operational consistency for mission-critical and standard business computing.

HP Care Pack Services: Upgrading or extending standard server and storage warranties cost effectively

HP Care Pack Services offer a standard reactive hardware and software support services suite sold separately, or combined with our Support Plus and Support Plus 24 services. The portfolio also provides a combination of integrated proactive and reactive services, such as Proactive 24 Service and Critical Service. In addition with HP Proactive Select, you can acquire the specific proactive constancy and technical services. HP Proactive Select menu offers a broad set of service options that you can mix and match depending on your specific requirements. Proactive service options include offers for server, storage, network, SAN device, software, environment and education services.

HP server and storage lifecycle support services offers a full spectrum of customer care—from technology support to complex migrations to complete managed services. HP Factory Express provides customization, integration and deployment services for turnkey solutions. HP Education Services offer flexible, comprehensive training on to help your IT staff get the most out of your server and storage investments. HP Financial solutions extend innovative financing and cost-effective asset management programs—from purchase to equipment retirement.

Learn more: www.hp.com/services/servers and www.hp.com/services/storage

NOTE: Care Pack Services availability may vary by product and country.

HP Care Pack Services are sold by HP and HP Authorized Service Partners:

- Services for customers purchasing from HP or an enterprise reseller are quoted using HP order configuration tools.
- Customers purchasing from a commercial reseller can find HP Care Pack Services at <http://www.hp.com/go/lookuptool>

Service and Support

Recommended HP Care Pack Services for optimal satisfaction with your HP product

Recommended Services **Hardware Options Support**

HP Care Packs provide support for all HP-branded hardware options qualified for inclusion in your server or storage solution. Any additional HP-qualified options installed within the server are covered at the same service level and for the same period as the server and no additional cost.

- Help improve or maintain system uptime
- Convenient onsite support
- Committed response time

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EEE>

3-Year HP Hardware Support Onsite Service, 4-hour response, 24x7

Provides you with rapid remote support and if required an HP authorized representative who will arrive on site any time and day of the year to begin hardware maintenance service within 4 hours of the service request being logged.

This service provides a trained HP service specialist to perform an installation that meets HP quality standards, for:

- Help improve or maintain system uptime
- Convenient onsite support
- Committed response time

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EEE>

HP Installation and Startup of HP ProLiant Servers

Provides for the installation of your new HP ProLiant server and operating system to assist you in bringing your new HP ProLiant server and operating system into operation in a timely and professional manner.

This service provides a trained HP service specialist to perform an installation that meets HP quality standards, for:

- Delivery of the service at a mutually scheduled time convenient to your organization
- Availability of an HP service specialist to answer basic questions during the onsite delivery of this service
- Custom installation as detailed in "Delivery specifications" or in a Statement of Work (SOW)
- Verification prior to installation that all service prerequisites are met

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5982?7572ENN>

Service and Support

Optional HP Care Pack Services that will enhance your HP product experience

Optional Services

3-Year HP Hardware Support Onsite Call-to-Repair (CTR) Service, 6- or 24-hour

As an alternative to our recommended support level, for customers who need committed call-to-repair for server hardware.

Provides your IT manager with a team of support specialists who will quickly begin troubleshooting the system to help return the hardware to operating condition within 6 or 24 hours of the initial service request to the HP Global Solution Center.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EN.pdf>

3-Year HP Support Plus 24

As an alternative to our recommended support level, for customers who need access to responsive 24x7 hardware and software support plus software updates on HP and selected third party products:

For a higher return on your server and storage technology, our 3-year combined reactive support service delivers integrated onsite hardware/software support services available 24x7x365, including access to HP technical resources, 4-hour response onsite hardware support and software updates.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-6638EEE>

HP Proactive Select Service

Customer needs on demand access to consulting, technical proactive services and education courses

Provides a flexible way to purchase HP best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-3842ENN>

eSupport

HP eSupport is a portfolio of technology-based services that assist you with managing your business environment - from the desktop to the data center.

Support Portal

The HP support portal provides one-stop access to the information, tools and services you need to manage the daily operations of your IT environment.

Features include:

- Access to self-solve tools (including search technical knowledge base)
- Efficient logging and tracking of support cases
- Collaboration with other business and IT professionals
- Download of patches and drivers
- Access to diagnostic tools
- Proactive notification of relevant information

Access to certain features of the support portal requires an HP service agreement. To access the support portal, visit: <http://www.hp.com/support>

HP Insight Remote Support software delivers secure remote support for your HP Servers and Storage, 24 X

Service and Support

7, so you can spend less time solving problems and more time focused on your business. You can have your systems remotely monitored for hardware failure using secure technology that's been proven at thousands of companies around the world. In many cases, you can avoid problems before they occur.

Customer Technical Training

In today's cost-conscious business environment, IT professionals, developers, consultants and users face an interesting challenge: how to keep up with the latest technologies and expand important skills while delivering profitable results on current projects. To help address this challenge, HP offers innovative training solutions that help keep you up-to-date on virtualization, server, storage, Insight Control, Citrix, Microsoft® and open source/Linux-related topics-while spending less time away from business-critical activities.

HP Services Awards

HP Technology Services continues to be recognized for service and support excellence by customers, partners, industry organizations and publications around the world. Recent honors and award reflect our services team's dedications, technical expertise, professionalism and uncompromising commitment to customer satisfaction.

Additional Services Information

To learn more on HP ProLiant servers, HP BladeSystem servers and HP StorageWorks storage products, please contact your HP sales representative or HP Authorized Channel Partner. Or visit: www.hp.com/services/proliant or www.hp.com/services/bladesystem or <http://www.hp.com/services/storage>

Related Options

Tape Autoloaders

HP StorageWorks DAT Autoloader

HP StorageWorks DAT 72x10 tape autoloader AE313B

HP StorageWorks 1/8 Tape Autoloader

HP StorageWorks 1/8 G2 LTO-3 Ultrium 920 Tape Autoloader AH165A

HP StorageWorks 1/8 G2 LTO-2 Ultrium 448 Tape Autoloader AH164A

HP StorageWorks 1/8 G2 LTO-1 Ultrium 232 Tape Autoloader AH163A

NOTE: Please reference the [Tape Autoloader QuickSpecs at http://www.hp.com/go/automation](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

HP StorageWorks MSL2024 1 LTO-3 Ultrium 960 SCSI Drive Library AG115A

HP StorageWorks MSL2024 1 LTO-3 Ultrium 920 SCSI Drive Library AH169A

HP StorageWorks MSL2024 2 LTO-3 Ultrium 920 SCSI Drive Library AH170A

HP StorageWorks MSL2024 1 LTO-2 Ultrium 448 SCSI Drive Library AG116A

HP StorageWorks MSL2024 2 LTO-2 Ultrium 448 SCSI Drive Library AG117A

HP StorageWorks MSL4048 Tape Library

HP StorageWorks MSL4048 1 LTO-4 Ultrium 1840 SCSI Drive Library AJ035A

HP StorageWorks MSL4048 2 LTO-4 Ultrium 1840 SCSI Drive Library AJ037A

HP StorageWorks MSL4048 1 LTO-3 Ultrium 960 SCSI Drive Library AG322A

HP StorageWorks MSL4048 2 LTO-3 Ultrium 960 SCSI Drive Library AG323A

HP StorageWorks MSL4048 1 LTO-3 Ultrium 920 SCSI Drive Library AH171A

HP StorageWorks MSL4048 2 LTO-3 Ultrium 920 SCSI Drive Library AH172A

HP StorageWorks MSL4048 1 LTO-2 Ultrium 448 SCSI Drive Library AG320A

HP StorageWorks MSL4048 2 LTO-2 Ultrium 448 SCSI Drive Library AG321A

HP StorageWorks MSL8096 Tape Library

HP StorageWorks MSL8096 2 LTO-4 Ultrium 1840 SCSI Drive Library AJ039A

HP StorageWorks MSL8096 2 LTO-3 Ultrium 960 SCSI Drive Library AH219A

HP StorageWorks MSL6000 Tape Library

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

Related Options

Tape Autoloaders

HP StorageWorks DAT Autoloader

HP StorageWorks DAT 72x10 tape autoloader AE313B

HP StorageWorks 1/8 Tape Autoloader

HP StorageWorks 1/8 G2 LTO-3 Ultrium 920 Tape Autoloader AH165A

HP StorageWorks 1/8 G2 LTO-2 Ultrium 448 Tape Autoloader AH164A

HP StorageWorks 1/8 G2 LTO-1 Ultrium 232 Tape Autoloader AH163A

NOTE: Please reference the [Tape Autoloader QuickSpecs at http://www.hp.com/go/automation](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

HP StorageWorks MSL2024 1 LTO-3 Ultrium 960 SCSI Drive Library AG115A

HP StorageWorks MSL2024 1 LTO-3 Ultrium 920 SCSI Drive Library AH169A

HP StorageWorks MSL2024 2 LTO-3 Ultrium 920 SCSI Drive Library AH170A

HP StorageWorks MSL2024 1 LTO-2 Ultrium 448 SCSI Drive Library AG116A

HP StorageWorks MSL2024 2 LTO-2 Ultrium 448 SCSI Drive Library AG117A

HP StorageWorks MSL4048 Tape Library

HP StorageWorks MSL4048 1 LTO-4 Ultrium 1840 SCSI Drive Library AJ035A

HP StorageWorks MSL4048 2 LTO-4 Ultrium 1840 SCSI Drive Library AJ037A

HP StorageWorks MSL4048 1 LTO-3 Ultrium 960 SCSI Drive Library AG322A

HP StorageWorks MSL4048 2 LTO-3 Ultrium 960 SCSI Drive Library AG323A

HP StorageWorks MSL4048 1 LTO-3 Ultrium 920 SCSI Drive Library AH171A

HP StorageWorks MSL4048 2 LTO-3 Ultrium 920 SCSI Drive Library AH172A

HP StorageWorks MSL4048 1 LTO-2 Ultrium 448 SCSI Drive Library AG320A

HP StorageWorks MSL4048 2 LTO-2 Ultrium 448 SCSI Drive Library AG321A

HP StorageWorks MSL8096 Tape Library

HP StorageWorks MSL8096 2 LTO-4 Ultrium 1840 SCSI Drive Library AJ039A

HP StorageWorks MSL8096 2 LTO-3 Ultrium 960 SCSI Drive Library AH219A

HP StorageWorks MSL6000 Tape Library

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

Internal Cables

HP Internal Wide Ultra3 NHP Cable 166389-B21

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 NOTE: For part number AT134A, the OS supported are HP UX 11.31 and OVMS 8.4. NOTE: For more Linux OS support & certification information, please visit our the ProLiant & BladeSystem Server Linux matrix: http://h18004.www1.hp.com/products/servers/linux/hplinuxcert.html
External SCSI Connectors	One 68-Pin VHDCI connector.
Internal SCSI Connectors	One SCSI-3 (68-Pin)

Environment-friendly Products and Approach	End-of-life Management and Recycling	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 http://www.hp.com/go/green . To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.
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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: <http://www.hp.com/go/green>. 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.

