

HP SC44Ge Host Bus Adapter

Data sheet



Archive data quickly and efficiently using the latest SAS technology and the PCI Express interface.



Store data in less time

To keep your business moving, your IT team needs to keep data moving—quickly and reliably. To protect your critical information, you need the ability to back up and restore data efficiently. The HP SC44Ge Host Bus Adapter helps you meet both of these challenges.

The SC44Ge Host Bus Adapter provides the flexibility and speed required to keep pace with the changing demands of a fast-moving business. This is an ideal host bus adapter (HBA) for organizations that need basic RAID support or require a serial-attached SCSI (SAS) interface for tape backup and restore on servers using PCI Express.

Providing up to 2.4 GB/second maximum storage bandwidth, the SC44Ge HBA moves data at nearly four times the speed of dual-channel U320 SCSI adapters. It allows you to archive data at the fastest SAS speeds available on servers using the PCI Express interface.

The SC44Ge HBA provides basic RAID (0, 1) support and low-cost connectivity to tape and hard disk drives (HDDs). It supports both 3 GB/second SAS and 1.5 GB/second SATA devices. In addition, the SC44Ge HBA gives you the confidence that comes with an adapter that has been thoroughly tested and integrated into many HP ProLiant servers.



Key features and benefits

Serial-attached SCSI

Gain the advantages of serial-attached SCSI, the latest in storage technology. SAS is the next generation of the SCSI interface, using a point-to-point architecture for better performance and reliability.

PCI Express

Improve throughput with PCI Express, the next generation in server I/O. PCI Express uses serial signaling to achieve higher throughput than the previous-generation PCI-X to help reduce backup windows.

HP BIOS and firmware

Use the HP BIOS and firmware customized for the ProLiant server family. The SC44Ge HBA is fine-tuned for use in ProLiant servers. The firmware enhancements and BIOS upgrades offer such items as Smart LUN Scan, Multi-initiator configuration menu, EV support and drive capacity displays in the BIOS banner.

Financial services

HP Financial Services provides innovative financing and financial asset management programs to help you cost-effectively acquire, manage and ultimately retire your HP solutions. For more information on these services, contact your local HP representative or visit: www.hp.com/go/hpfinancialservices.

HP Services

To help you streamline implementation and enhance the ongoing support of your HBAs, we provide cost-effective service options with resources and specialized expertise to complement your in-house capabilities. Our 69,000 skilled professionals and network of service partners deliver global services capabilities across the IT lifecycle, including consulting, integration, outsourcing and support.

Installation and startup services

Take advantage of complete installation and implementation support—including global rollout capabilities—to get your solutions up and running rapidly, with minimal business disruption.

Hardware support

Cover your HBAs with a single convenient service package. HP Care Pack Services for server and storage products provide support for all HP-branded hardware options that are qualified for inclusion with your server at the time of or after purchase.

Care Pack Services help increase uptime and productivity with rapid response on either a 24x7 or 13x5 basis. Both options feature same-day, 4-hour onsite assistance when service issues cannot be resolved remotely.

For more information, visit:

www.hp.com/services/proliantservices

www.hp.com/go/proliant/carepack

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PCI bus speed	PCI Express
PCI peak data transfer rate	2.5 GB/sec
SCSI protocol support	3 Gb/sec SAS (serial-attached SCSI) 1.5 Gb/sec SATA (serial advanced technology attachment)
SCSI peak data transfer rate	3 Gb/sec per port
Channels	8 port SAS
Maximum drives supported	8
SAS connectors	1 internal SFF8484 x4 wide SAS connector 1 external SFF8470 x4 wide SAS connector 12 Gb/sec per x4 wide SAS port (4 x 3 Gb/sec)
Logical drives supported	Up to 2 logical volumes Up to 10 drives total in all RAID volumes Up to 2 drives per RAID 1 Up to 8 drives per RAID 0
RAID support	RAID 1 (mirroring) RAID 0 (striping)
Warranty (parts only)	1-year

HP Host Bus Adapters

	SC44Ge	8 Internal Port SAS HBA with RAID	SC11Xe	Single Channel U320 SCSI
PCI bus speed	PCIe x8 (2.5 GB/sec maximum bandwidth)	PCI-X 64-bit, 133 MHz	PCIe x4, 2.5 Gb/sec	PCI-X 64-bit, 133 MHz
PCI peak data transfer rate	2.5 GB/sec	1 GB/sec	1 GB/sec	1 GB/sec
SCSI protocol support	3 Gb/sec SAS, 1.5 Gb/sec SATA	3 Gb/sec SAS, 1.5 Gb/sec SATA	Ultra320	Ultra320
SCSI peak data transfer rate	3 Gb/sec per port	3 Gb/sec per port	320 MB/sec per channel	320 MB/sec per channel
Ports	8 SAS ports	8 SAS ports	1 U320 SCSI channel	1 U320 SCSI channel
Connectors (external/internal)	1 x4/1 x4	0/2 x4	1/1	1/1
Maximum drives supported	8	8	14	14
Warranty (parts only)	1-year	1-year	1-year	1-year

To learn more

For more information about the HP SC44Ge and other HP ProLiant HBAs, please contact your local HP representative, or visit: www.hp.com/products/hba.

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To learn more, visit www.hp.com/products/hba

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