

Adaptec® Serial Attached SCSI 58300



High-performance external storage connectivity for servers and workstations

Serial Attached SCSI (SAS) is the enterprise storage interface that takes SCSI into new dimensions of performance, flexibility and scalability. With SAS you can enjoy performance many times faster than traditional SCSI and mix and match SAS and Serial ATA (SATA) drives for cost and performance optimization.

Adaptec Serial Attached SCSI 58300

The Adaptec Serial Attached SCSI 58300 card features Adaptec HostRAID™ – an integrated RAID technology that maximizes system performance and uptime providing high-performance data throughput for mission critical applications. The Adaptec 58300 includes eight 3 Gb/s ports, supporting up to 128 devices, and two external Mini SAS x4 SFF-8088 connectors. The card offers RAID levels 0, 1, and 10 as well as 48-bit LBA support for the use of disk drives exceeding 137GB in capacity. The Adaptec 58300 supports Windows® 2000, Windows Server 2003, Windows XP, and Linux.

Ideal Environments for the Adaptec Serial Attached SCSI 58300

The Adaptec Serial Attached SCSI 58300 is ideal for use in servers, workstations, and enclosures with high-speed Serial Attached SCSI and SATA hard disk drives. It provides the performance and security required for mission-critical applications which demand data redundancy, for high-performance servers where secure mass data backup is vital, and for robust internal server and workstation disk-based storage.

Why Adaptec Serial Attached SCSI RAID?

The Adaptec Serial Attached SCSI RAID family of controllers is a key part of the Adaptec effort to help organizations cost-effectively deploy,

manage, scale, and protect storage resources. Adaptec is driving RAID adoption with new RAID product and technology development, compatibility testing with motherboards, operating systems, applications and disk drives, RAID application education, and global customer care.

Adaptec Serial Attached SCSI 58300 performance advantages

The Adaptec 58300 improves performance over a comparable SCSI RAID controller by offering a PCI-X/133 MHz host interface with bandwidth up to 1056 MB/s, which is twice as much as a common 64bit PCI interface. Its eight SAS ports can deliver a throughput of approximately 300 MB/s each.

Easy-to-use storage management

The Adaptec 58300 operates under Adaptec Storage Manager™, a storage management tool that centralizes management of all Adaptec host-based and all hardware based RAID products. The software enables remote management, monitoring, and configuration of RAID arrays through secure, encrypted remote communications. The intuitive RAID management tool provides pop-up tips and online help to simplify the creation and management of RAID arrays.

Compatibility, reliability, and support

Adaptec has been delivering storage and I/O solutions to the industry for more than 24 years. In fact, Adaptec is the undisputed RAID leader, and no other vendor's technology is more proven. The Adaptec Serial Attached SCSI 58300 has been extensively tested with third-party systems to deliver the utmost in compatibility. It is backed by a 3-year warranty and Adaptec's legendary technical support.

Product Highlights

- Eight 3Gb/s ports
- Integrated RAID 0, 1, and 10
- Supports both Serial Attached SCSI and Serial ATA hard disk drives
- PCI-X/133 MHz host interface (supports PCI 32/64 bit as well)
- Two external Mini SAS x4 SFF-8088 connectors
- Bootable array support
- Low profile form factor
- RoHS-compliant

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Adaptec Serial Attached SCSI 58300 Ordering Part Number: 2220600-R

Why to buy	External connectivity, performance and RAID 0, 1, and 10 in a cost-effective 8-port SAS RAID controller that offers dual external Mini SAS x4 connectors supporting 2.4Gb/s throughput which links both enterprise SAS disk drives and capacity-optimized SATA disk drives for high-performance and mission critical data storage
Customer needs	Ideal for connecting SAS and SATA disk drives via external SAS connections to servers and workstations where RAID 0 performance and RAID 1 and 10 data protection are required, such as video streaming, web content, video on demand, security and surveillance, fixed content, and reference data storage
Environment	Departmental and Workgroup Servers
Device support	Up to 128 devices
Data transfer rates	Up to 3Gb/s
RAID levels	Adaptec HostRAID levels 0, 1, and 10
Bus type	3.3V 64-bit PCI-X 133MHz, PCI 33/66
Internal connectors	None
External connectors	Two external Mini SAS x4 SFF-8088 connectors
System requirements	IA-32, AMD-32, EM64T and AMD-64 type servers 3.3V 64-bit PCI-X 133 slot Use with Adaptec approved expanders
Operating system support	Windows Server 2003, Windows 2000, Windows XP RedHat and SuSE Linux
Key RAID features	Auto-rebuild by location Managed through Adaptec Storage Manager software
Software in kit	Adaptec Storage Manager, BIOS configuration utility, Command Line Interface
Cables in kit	None
Brackets included	One low-profile bracket One full-height bracket
Physical dimensions	2.5in H x 7.0in L (including external connector) 6.35cm H x 17.78cm L (including external connector)
Operating temperature	0 to 55 degrees C
Power dissipation	4 W
Warranty	3 years

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Adaptec, Inc.
691 South Milpitas Boulevard
Milpitas, California 95035
Tel: (408) 945-8600
Fax: (408) 262-2533

Literature Requests:
US and Canada: 1 (800) 442-7274 or (408) 957-7274
World Wide Web: www.adaptec.com
Pre-Sales Support: US and Canada: 1 (800) 442-7274 or (408) 957-7274
Pre-Sales Support: Europe: Tel: (44) 1276-854-500 or Fax: (44) 1276-854-505

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