

# Adaptec® Serial Attached SCSI 48300



## High-performance storage connectivity and data protection 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 48300

The Adaptec Serial Attached SCSI 48300 card is an eight-port controller featuring Adaptec HostRAID™ – an integrated RAID technology that maximizes system performance and uptime. The Adaptec 48300 supports up to eight direct attached devices and up to sixteen devices using expander technology. The card offers RAID levels 0 (striping), 1 (mirroring), and JBOD (individual drive) as well as 48-bit LBA support for the use of disk drives exceeding 137GB in capacity. The Adaptec 48300 supports Windows® 2000, Windows Server 2003, Windows XP, and Linux.

### Ideal Environments for the Adaptec Serial Attached SCSI 48300

The Adaptec Serial Attached SCSI 48300 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 48300 performance advantages

The Adaptec 48300 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 48300 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 48300 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 ports support up to eight devices
- Supports both Serial Attached SCSI and Serial ATA hard disk drives
- PCI-X/133MHz host interface (supports PCI 32/64bit as well)
- RAID 0 and 1
- 48-bit LBA support
- Low-profile form factor
- Bootable array support
- Background initialization

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## Adaptec Serial Attached SCSI 48300 Ordering Part Number: 2180800

<b>Why to buy</b>	Low-cost, Serial Attached SCSI controller featuring Adaptec HostRAID for high performance, mission critical data storage
<b>Customer needs</b>	Ideal for supporting mid- to low-end server and workstation environments where high performance data storage and reliable data protection are critical, such as IT backup, web content, email, share drive and database support
<b>Environment</b>	Departmental and Workgroup Servers
<b>Device support</b>	Up to 8 direct attached SAS drives, 16 using expander technology
<b>Data transfer rates</b>	Up to 3Gb/s
<b>RAID levels</b>	Adaptec HostRAID 0 and 1
<b>Bus type</b>	3.3V 64-bit PCI-X 133MHz, PCI 33/66
<b>Internal connectors</b>	One 32 pin x 4 Serial Attached SCSI (SFF8484)
<b>External connectors</b>	One x 4 Infiniband/Serial Attached SCSI (SFF8470)
<b>System requirements</b>	IA-32, AMD-32, EM64T and AMD-64 type servers 3.3V 32/64-bit PCI 2.2 or 3.3V 64-bit PCI-X 133 slot Use with Adaptec approved expanders
<b>Operating system support</b>	Windows Server 2003, Windows 2000, Windows XP RedHat and SuSE Linux
<b>Key RAID features</b>	Auto-rebuild by location Managed through Adaptec Storage Manager software
<b>Software in kit</b>	Adaptec Storage Manager, BIOS configuration utility, Command Line Interface
<b>Cables in kit</b>	One 0.5m x4 internal SAS (ACK-INT-SAS-0.5M: 2166900) One 0.5m x4 internal SAS Fanout (ACK-INT-SAS-FANOUT-0.5M: 2167100)
<b>Brackets included</b>	One low-profile bracket One full-height bracket
<b>Physical dimensions</b>	2.5in H x 7.0in L (including external connector) 6.35cm H x 17.78cm L (including external connector)
<b>Operating temperature</b>	0 to 55 degrees C
<b>Power dissipation</b>	4 W
<b>Warranty</b>	3 years



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