

Adaptec RAID 1430SA



HostRAID™, PCI Express, SATA 3Gb/s controller supporting RAID 0, 1, & 10 for data protection and increased performance

SATA 3Gb/s, the successor technology to Serial ATA (SATA) for data storage, is a point-to-point connection that delivers full throughput to each storage device by allowing multiple ports to be managed by a single controller.

Adaptec Serial ATA II RAID 1430SA

The Adaptec RAID 1430SA card is a PCI Express x4, four-port SATA controller featuring Adaptec HostRAID™ – an integrated RAID technology that maximizes system performance and uptime.

The Adaptec 1430SA supports up to four Serial ATA 3Gb/s ports and offers RAID levels 0, 1, and 10 for desktops, workstations and entry-level servers. Additional advanced features include support for Native Command Queuing – NCQ increases I/O performance by arranging data requests into the most efficient order, and support for 48-bit Logical Block Addressing (LBA) to enable use of disk drives larger than 137 GB.

The Adaptec 1430SA supports Windows® 2000, Windows Server 2003, Windows XP, Red Hat Linux, SuSE Linux, and NetWare.

Adaptec Serial ATA RAID applications

The Adaptec 1430SA allows end-users to tune their system performance and data protection. On personal computers, the RAID 0 feature of the Adaptec 1430SA bolsters the performance of applications such as audio/video streaming and gaming.

The RAID 1 and 10 capability of the Adaptec 1430SA protects data for a wide variety of applications that require high availability. In the small office and home office environment, the Adaptec 1430SA can be used as a boot device to protect the operating system in print, file, and storage servers. Four-drive connectivity allows use of up to two striping or mirroring RAID arrays at the same time.

Why Adaptec Serial ATA RAID?

Adaptec makes it easy to cost-effectively deploy, manage, scale, and protect storage. Our products and technology are based on a proven RAID core; tested compatibility with operating systems, motherboards, applications, and drives; RAID education; and global support.

Adaptec Serial ATA RAID 1430SA performance advantages

The Adaptec 1430SA improves performance over a comparable SATA RAID controller by offering four 3Gb/s SATA ports, NCQ support and a PCI Express x4 MHz host interface with bandwidth up to 2.5Gb/s, which is 4 times as fast as a common 64-bit PCI interface.

Easy-to-use storage management

The intuitive Adaptec Storage Manager™ (ASM) tool centralizes management of all Adaptec RAID products. ASM enables remote RAID management, monitoring, and configuration through secure, encrypted communication. Pop-up tips and online help simplify RAID array creation and management.

Compatibility, reliability, and support

Adaptec has been delivering storage and I/O solutions for over 25 years, and is the undisputed RAID leader – no technology is more proven. These cards are tested thoroughly for third-party compatibility, and backed by a 3-year warranty and legendary Adaptec technical support.

- Product Highlights**
- PCI Express x4 host interface
- Four SATA 3Gb/s ports
- RAID levels 0, 1, and 10
- Low-profile form factor
- Native Command Queuing (NCQ)
- 48-bit LBA supports large capacity SATA drives
- Bootable array support
- RoHS compliant



Adaptec RAID 1430SA

Adaptec RAID 1430SA RoHS kit Ordering Part Number: 2240900-R

Why to buy	Low-cost SATA II card with HostRAID RAID 0, 1, and 10 for data protection and increased performance
Customer needs	Ideal for desktop and workstations as well as entry-level servers requiring low cost SATA RAID 0, 1, and 10
Environment	Small office and home office as a boot device for print, file, and storage servers
Device support	Up to four SATA 3Gb/s or SATA 1.5 Gb/s disk drives
Data transfer rates	3 Gb/s, 1.5 Gb/s
RAID levels	0, 1, 10, and JBOD
Bus type	PCI Express 4-lane 2.5 Gb/s
System requirements	Intel or AMD architecture with available PCI Express x4 slot
Operating system support	Windows 2000, Windows Server 2003, Windows XP, NetWare, and Red Hat and SuSE Linux (for most current Linux drivers, go to www.adaptec.com)
Kit includes	Adaptec 1430SA controller with full-size bracket Four 1-meter Serial ATA cables Low-profile replacement bracket Quick Install Guide Bootable Installation CD containing: -Operating system drivers -Complete user documentation (pdf) Adaptec Storage Manager CD containing: -Adaptec Storage Manager GUI software -Complete user documentation (pdf)
Physical dimensions	2.5 inch H x 4.7 inch L 6.4 cm H x 11.3 cm L
Operating temperature	0 to 55 degrees C
Power requirements	0.9 amps @ 3.3V
Warranty	3 years

1430SA



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