

Adaptec[®] Serial ATA II RAID 1420SA



Cost-effective storage connectivity and data protection for desktops, workstations, and sub-entry servers

Serial ATA II, the successor technology to 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 1420SA

The Adaptec Serial ATA II RAID 1420SA card is a four-port controller featuring Adaptec HostRAID™ – an integrated RAID technology that maximizes system performance and uptime. The Adaptec 1420SA supports up to four Serial ATA drives and offers RAID levels 0 (striping), 1 (mirroring), and JBOD (individual drive). The Adaptec 48-bit logical block addressing (LBA) support enables use of disk drives exceeding 137 GB in capacity. The Adaptec 1420SA supports Windows® 2000, Windows Server 2003, Windows XP, RedHat Linux, SuSE Linux, and NetWare.

Adaptec Serial ATA RAID applications

The Adaptec 1420SA allows end-users to tune their system performance and data protection. On personal computers, the striping feature of the Adaptec 1420SA bolsters the performance of applications such as audio/video streaming and gaming.

The mirroring capability of the Adaptec 1420SA protects data for a wide variety of applications that require high availability. In the small office and home office environment, the Adaptec 1420SA 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? The Adaptec 1420SA Serial ATA II 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 ATA RAID 1420SA performance advantages

The Adaptec 1420SA improves performance over a comparable SATA 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.

Easy-to-use storage management

The Adaptec Serial ATA RAID 1420SA 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 ATA RAID 1420SA 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

- Four ports support up to four Serial ATA and Serial ATA II hard disk drives
 - PCI-X/133MHz host interface (supports PCI 32/64bit as well)
- RAID 0, 1, JBOD
- 48-bit LBA support
- Low-profile form factor
- Bootable array support
 - Background initialization

Adaptec Serial ATA II RAID 1420SA

Adaptec Serial ATA II RAID 1420SA Ordering Part Number: 2170200

Why to buy	Low-cost Serial ATA II RAID card with HostRAID RAID 0 and 1 for data protection and increased performance
Customer needs	Ideal for desktop and workstations as well as sub-entry servers requiring RAID mirroring or striping
Environment	Small office and home office as a boot device for print, file, and storage servers. Enhanced performance for video editing, video/audio streaming, and gaming applications.
Device support	Up to four Serial ATA / Serial ATA II disk drives 48-bit LBA supports drives larger than 137 GB
Data transfer rates	1.5Gb/s, 3Gb/s (available soon)
RAID levels	0, 1, JBOD
Bus type	PCI-X /133 MHz (compatible to PCI 32/64 bit)
System requirements	Intel PC or equivalent with available universal PCI slot
Operating system support	Windows 2000, Windows Server 2003, Windows XP, NetWare, and RedHat and SuSE Linux (for most current Linux drivers, go to www.adaptec.com)
Key RAID features	Background initialization Support bootable arrays
Software in kit	Adaptec Storage Manager™, BIOS configuration utility
Cables in kit	Four 1-meter Serial ATA cables
Physical dimensions	PCI MD2 form factor (low profile) 2.5 inch H x 6.6 inch L 6.4 cm H x 16.8 cm L
Operating temperature	0 to 55 degrees C
Power requirements	0.3 amps @ +5V
Warranty	3 years





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