adaptec®

Adaptec® **RAID** 1220SA

PCI Express x1, 2-port SATA 3Gb/s RAID
Cost-effective storage connectivity and data protection
for desktops, workstations, and sub-entry servers

Serial ATA, the successor technology to parallel ATA 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 technology delivers data transfer rates starting at 3.0 Gb/s and a performance roadmap that calls for extensions to 6.0 Gb/s. Adaptec Serial ATA cables are thinner, simpler to route and install, and provide better airflow for system cooling than parallel ATA cables.

Adaptec RAID 1220SA

The Adaptec RAID 1220SA card is a PCI Express x1, two-port SATA controller featuring Adaptec HostRAID™ – an integrated RAID technology that maximizes system performance and uptime. The Adaptec 1220SA supports up to two Serial ATA drives and offers RAID levels 0 (striping), 1 (mirroring), JBOD (individual drive). The Adaptec 48-bit LBA support enables use of disk drives exceeding 137 GB in capacity. The Adaptec 1220SA supports Windows® XP, Windows 2000, Windows 2003, Netware, RedHat Linux, and SuSE Linux.

Adaptec Serial ATA RAID applications

The Adaptec 1220SA allows end-users to tune their system performance and data protection. On personal computers, the striping feature of the Adaptec 1220SA bolsters the performance of applications such as audio/video streaming and gaming. The mirroring capability of the Adaptec 1220SA protects data for applications such as personal finance. In the small office and home office environment, the Adaptec 1220SA can be used as a boot device to protect the operating system in print, file, and storage servers.

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 RAID 1220SA performance advantages

The Adaptec 1220SA improves performance over a comparable SATA RAID controller by offering two 3Gb/s Serial ATA ports, NCQ support and a PCI Express x1 host interface with bandwidth up to 500 MB/s.

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 x1
- Two Serial ATA 3Gb/s ports
- RAID 0 and 1
- Low-profile form factor
- Native Command Queuing (NCQ)
- 48-bit LBA support
- SATA tape support
- RoHS compliant

PCI EXPRESS®

Adaptec **RAID** 1220SA

Adaptec RAID 1220SA RoHS kit
Ordering Part Number: 2232100-R

Why to buy	Low-cost Serial ATA RAID card for data protection and increased performance
Customer needs	Ideal for desktop and workstations as well as entry-level 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 two Serial ATA disk drives 48-bit LBA supports drives larger than 137 GB SATA tape drives
Data transfer rates	Up to 3.0 Gb/s
RAID levels	0, 1, and JBOD
Bus type	PCI Express x1
System requirements	Intel or AMD architecture with available PCI Express x1 slot
Operating system support	Windows 2000, Windows Server 2003, Windows XP, Netware 6.5, RedHat and SuSE Linux (for latest supported kernels, visit www.adaptec.com)

Kit includes	Adaptec 1220SA controller with full-size bracket
	Two 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 3.5 inch L 6.4 cm H x 8.5 cm L
Operating temperature	0 to 55 degrees C
Power requirements	0.9 amps @ 3.3V
Warranty	3 years

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