

Adaptec® Serial ATA 2410SA RAID Enclosure Kit



Full-featured Serial ATA RAID solution brings reliable, low-cost hot-swap interoperability to workstation and server storage

The Adaptec Serial ATA RAID 2410SA Enclosure Kit makes it easier and more cost-effective for small businesses to deploy, manage, configure, and protect their vital data. Designed for desktops, workstations, and entry-level servers, the Adaptec 2410SA Enclosure Kit delivers advanced RAID functionality, full hot-swap interoperability, and simplified enclosure management, in a single, reliable, low-cost solution.

The Adaptec 2410SA Enclosure Kit is a fully tested, fully supported, Serial ATA RAID solution that includes an Adaptec 2410SA RAID controller, internal 4-bay hot-swappable drive chassis, cables, and Adaptec's web-based Storage Manager software. It is a complete, cost-effective solution that combines Adaptec quality, reliability, and support, with the advanced performance of Serial ATA RAID data protection.

Full-Featured Serial ATA RAID

The Adaptec 2410SA Enclosure Kit combines the cost and performance advantages of native Serial ATA technology with Adaptec's advanced RAID feature set to maximize data availability, system performance, and value-add.

Serial ATA, the next-generation I/O technology for data storage, uses simplified point-to-point connections that deliver full throughput to each storage device in the enclosure by allowing multiple ports to be managed by a single controller. Adaptec's Serial ATA technology delivers data transfer rates starting at 1.5 Gbit/sec and a performance roadmap up to 6.0 Gbit/sec.

The included Adaptec Serial ATA RAID 2410SA controller capitalizes on the inherent

advantages of Serial ATA to deliver full-featured, low-cost RAID. The Adaptec 2410SA card is a 4-port PCI controller that supports RAID levels 0, 1, 5, 10 and JBOD for maximum configuration flexibility. Adaptec 48-bit LBA support enables the use of up to four 137 GByte-or-greater disk drives in the RAID enclosure, for maximum storage resources.

True Hot-Swap Functionality

Adaptec has designed an efficient and fully tested controller-to-enclosure connection that enables cost-effective, full hot-swap capability. Plus, Adaptec firmware is specially designed to blink the LED of a failed drive so users will know which is the correct drive to swap, avoiding catastrophic failures of the entire array.

Adaptec Advanced RAID Features

Adaptec's exclusive RAID capabilities expand the value of Serial ATA for small businesses. Optimized Disk Utilization enables the Adaptec 2410SA controller to use the full available capacity of up to four Serial ATA drives housed within the enclosure, regardless of their mixed capacities. Unlike other solutions that limit capacity utilization to the smallest drive in the array, the Adaptec 2410SA Enclosure Kit allows access to total drive capacity, even if the drive sizes are different.

Online Capacity Expansion allows for adding capacity to an existing array without ever having to take the storage offline. This avoids the cumbersome task of having to recreate a whole new array and restoring. Similarly, RAID Level Migration enables the storage array to be migrated from one RAID level to another to meet changing business needs.

Product Highlights

- Fully tested & supported hot-swappable Serial ATA RAID solution
- Includes Adaptec 2410SA RAID controller
- Internal 4-bay hot-swappable Serial ATA drive chassis
- Occupies 3 standard 5¹/₄-inch drive bays in a server chassis
- Full RAID 0, 1, 10, 5, & JBOD support
- Automatically blinks a failed drive's LED
- Easy enclosure management
- Adaptec Storage Manager™ - Browser Edition software
- Guaranteed interoperability

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Adaptec 2410SA Enclosure Kit Ordering Part Number: 2065500

Why to buy	True hot-swappable, low-cost Serial ATA enclosure with advanced RAID features
Customer needs	Ideal for small business workstations and entry-level servers requiring a reliable, affordable RAID solution with fully tested and supported hot-swap interoperability
Kit composition	Adaptec Serial ATA RAID 2410SA controller 4-bay Serial ATA RAID enclosure and connector (occupying 3 standard 5 1/4-inch bays in server chassis) Adaptec Storage Manager – <i>Browser Edition</i> Four 1-meter Serial ATA cables
Device support	Up to 4 Serial ATA drives, any capacity
Data transfer rates	Up to 1.5 Gbits/sec
RAID levels	0, 1, 5, 10, JBOD
Advanced RAID features	Optimized disk utilization Online RAID Level Migration Online Capacity Expansion Background initialization, SNMP support Enclosure management ready
Cache memory	64 MByte
Bus type	64-bit/66 MHz PCI
O/S requirements	Windows Server 2003, Windows XP, Windows 2000, RedHat and SuSE Linux, SCO UnixWare and Caldera Open UNIX (for latest supported kernels visit www.adaptec.com)
System requirements	Available PCI slot meeting PCI 2.2 specification
Controller dimensions	PCI MD2 form factor (low-profile) 2.5 in H x 6.6 in L (6.4 cm H x 16.8 cm L)
Enclosure capacity	4x 1" Host receptacle connector, Serial ATA hot-swap hard drives
Enclosure cooling	9 cm Exhaust fan
Enclosure monitoring	Fan fail detection LED and alarm, overheat LED indication, built-in termination
Enclosure dimensions	146 mm W x 129 mm H x 230 mm D
Enclosure weight	Gross: 6.8 lb., Net: 5.5 lb.
Warranty	3-years

Both of these operations can be done in the background, and data continues to be available and protected while the expansion or migration is occurring.

Easy, Flexible RAID Management

Adaptec's intuitive Adaptec Storage Manager – *Browser Edition* software simplifies RAID enclosure management and storage configuration for all Adaptec RAID products. The application allows you to easily capitalize on the power of Adaptec's RAID features, including creating logical arrays, swapping drives, and expanding arrays, without having to backup and restore data.

Maximum Interoperability

The Adaptec Serial ATA 2410SA supports Windows® Server 2003, Windows XP, Windows 2000, RedHat Linux, SuSE Linux, SCO UnixWare, and Caldera Open UNIX operating systems, along with key system monitoring features such as enclosure management, and SNMP.

Adaptec works with all major disk drive manufacturers to ensure complete compatibility with the widest possible range of Serial ATA drives. For a full list of currently supported drives, visit www.adaptec.com.

Adaptec Quality and Support

The Adaptec 2410SA Enclosure Kit has been extensively tested with third-party systems and Serial ATA drives in order to deliver unsurpassed reliability, performance, and compatibility. Like all Adaptec products, the Enclosure Kit is backed by our industry-leading technical support, including a three-year warranty, so you can maximize both the performance and useful lifetime of your solution.



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