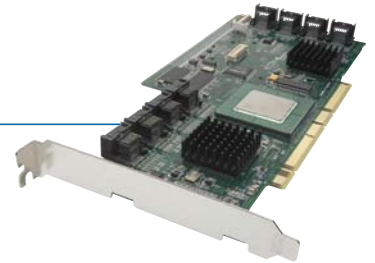


Adaptec® Serial ATA RAID 21610SA Controller

High capacity 16-port RAID card brings advanced Serial ATA features and data protection to midrange and high-end servers using low-cost SATA drives.



Adaptec Serial ATA Technology

Using a point-to-point connection that delivers full throughput to each Serial ATA drive by allowing multiple paths to be managed by a single controller, Adaptec's Serial ATA products deliver superior performance and data protection at a cost comparable to previous-generation Parallel ATA technology.

Adaptec's Serial ATA products deliver data transfer rates starting at 1.5 Gbit/sec, with a future performance roadmap of up to 6.0 Gbit/sec. Serial ATA cables are thinner, simpler to route and install, and provide better airflow for system cooling. And, Adaptec Serial ATA products are fully compatible with the widest range of operating systems and legacy systems.

Adaptec Serial ATA RAID 21610SA

The Adaptec Serial ATA RAID 21610SA controller is a flexible, high capacity 16-port native Serial ATA I/O processor-based RAID controller that combines the high-performance storage connectivity of Serial ATA with Adaptec's advanced RAID features, including Optimized Disk Utilization, Online Capacity Expansion, RAID Level Migration, and Adaptec Storage Manager – *Browser Edition*.

Supporting RAID levels 0, 1, 5, 10, and JBOD, plus disk hot plug and Adaptec advanced RAID features, the Adaptec 21610SA is an ideal solution for applications where high levels of sustained read and write performance are required, including video streaming, web content, reference data, and fixed content storage.

Adaptec Advanced Serial ATA RAID

The Adaptec 21610SA controller uniquely combines the performance characteristics and cost advantages of Serial ATA with the flexibility and power of Adaptec's advanced RAID feature sets to support high levels of sustained I/O performance where data protection is critical.

Exclusive Optimized Disk Utilization enables the Adaptec 21610SA to utilize the full available capacity of all attached drives, even if drive sizes are different. This avoids wasted drive capacity and provides advantages over competing cards that limit capacity usage to the smallest drive in an array.

Online Capacity Expansion enables IT managers to create multiple arrays across a single set of drives connected to the Adaptec 21610SA, so that specific arrays can be optimally tuned to meet the differing needs of multiple applications. And Adaptec's RAID Level Migration feature means that data protection and system performance levels can be simply set and changed by users in order to meet the changing demands of their business.

Simplified Integration and Management

The Adaptec 21610SA includes our exclusive Adaptec Storage Manager – *Browser Edition* software to simplify the integration of the Adaptec 21610SA card and to make RAID configuration across the enterprise easier.

This intuitive software gives users a single graphical user interface to manage all Adaptec storage cards, whether Serial ATA, SCSI, or RAID, across their entire enterprise. Adaptec Storage Manager – *Browser Edition* simplifies storage configuration and management through remotely accessible, password

Product Highlights

Sixteen Serial ATA drive ports

Intel 80303 100 MHz Intelligent I/O processor

RAID 0, 1, 10, 5 and JBOD

Optimized Disk Utilization

Online Capacity Expansion

RAID Level Migration

Adaptec Storage Manager™ – *Browser Edition* software

Hot Swap capability

Adaptec Serial ATA RAID 21610SA Controller

Adaptec Serial ATA RAID 21610SA Controller Ordering Part Number: 2080800

Why to buy	High capacity, flexible 16-port advanced-featured, microprocessor-based Serial ATA RAID for cost-effective I/O performance and maximum data protection
Customer needs	Ideal for server applications where high levels of sustained read and write operations are required, such as video streaming, web content, video-on-demand, security and surveillance, fixed content, and reference data storage
Environment	Midrange and high-end servers
Device support	Up to 16 Serial ATA disk drives
Data transfer rates	Up to 1.5 Gbits/sec
RAID levels	0, 1, 5, 10, JBOD
Cache memory	64 Mbyte
Bus type	64-bit/66 MHz PCI
Internal connectors	Sixteen Serial ATA connectors
System requirements	Available PCI slot meeting PCI 2.2 specification
Operating system support	Windows® Server 2003, Windows XP, Windows 2000, RedHat and SuSE Linux, SCO UnixWare and Caldera OpenUNIX (for latest supported kernels visit www.adaptec.com)
Key RAID features	Optimized Disk Utilization Online RAID Level Migration Online Capacity Expansion Background Initialization SNMP support Enclosure Management Ready
Software in kit	Adaptec Storage Manager – <i>Browser Edition</i> , BIOS configuration utility, Command Line Interface (CLI)
Cables in kit	Sixteen 1-meter Serial ATA cables
Physical dimensions	9.25 x 5 inches
Operating temperature	0 to 55 degrees C
Power requirements	1.6 amps @ +5V
Warranty	3 years

Broad Operating System Support and Key Management Features

The Adaptec 21610SA 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.

Another Part of the Adaptec RAID Family

The 16-port Adaptec Serial ATA RAID 21610SA controller is a part of a broader family of Adaptec Serial ATA RAID products, all designed to provide simple, low cost ways of improving system performance and maximizing data availability. Like all other Adaptec cards, the Adaptec 21610SA has been extensively tested with third-party systems and Serial ATA devices to deliver unsurpassed compatibility – now and into the future. It is backed by a three-year warranty and Adaptec's industry-leading technical support.



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