

Adaptec® SCSI RAID 2120S & 2200S



Advanced performance and flexibility for entry-level to mid-range servers

As more high-density servers come online, businesses are increasingly requiring advanced RAID functionality in a small form factor. This is exactly the need addressed by the new Adaptec 2120S & 2200S cards. These controllers provide a number of advanced features for entry-level and mid-range servers, such as optimum capacity use of mixed size drives.

Ultra320 SCSI: Faster and smarter

The Adaptec 2120S & 2200S RAID controllers feature Ultra320 SCSI and data transfer rates up to 320 MByte/sec on each channel. This performance increase is especially significant in storage systems performing large data transfers or connecting many drives on a single channel. Adaptec developed a new technology called Seamless Streaming™ to optimize Ultra320 performance, maximizing bus utilization and minimizing command overhead as multiple commands are transferred in a single connection and at higher speeds.

Exclusive mixed-capacity drive use

Adaptec's exclusive optimized disk utilization allows the full available capacity to be used of all drives attached to the controller, even if the drive sizes are different. Both cards also make it possible to create multiple arrays from a single set of drives. Online Capacity Expansion and RAID Level Migration allow users to adjust ever-changing storage needs on the fly. This powerful combination of features maximizes system resources and reduces downtime.

Browser-based storage management

Adaptec Storage Manager–Browser Edition allows system administrators to remotely manage, monitor, and configure RAID subsystems through password-protected web access – thereby providing a more flexible support infrastructure for IT professionals.

Choosing between the Adaptec 2120S & 2200S

Both the Adaptec 2120S & 2200S support a range of operating systems (Windows® XP/NT®/2000, Linux, NetWare, and Caldera) and RAID configurations (0, 1, 10, 5, 50, and JBOD). Both also feature a low-profile MD2 form factor, and accommodate an optionally available battery backup module (ABM-300) for 72-hour cache memory protection.

For single-channel RAID control in high-density servers and workstations, both conventional and rackmount, the Adaptec 2120S is an excellent choice. For installations requiring a dual-channel controller, faster processor, or IA-64 readiness, choose the Adaptec 2200S.

Compatibility, reliability, and support

Like all Adaptec products, the Adaptec 2120S & 2200S have been extensively tested with third-party systems to deliver the utmost in compatibility, now and in the future. They are backed by a 3-year warranty and Adaptec's industry-leading technical support.

Product Highlights

Ultra320 SCSI RAID

Ultra320 SCSI one- and two-channel SCSI RAID controllers feature Adaptec's Seamless Streaming technology

Exclusive Adaptec optimized disk utilization technology enables optimum use of drive capacity

New browser-based software provides password-protected remote storage management

Adaptec 2120S

Single channel

Intel 80302 (66 MHz) microprocessor

Low-profile MD2 form factor for high-density servers

Optional Lithium ION battery backup module

Adaptec 2200S

Dual channel

Intel 80303 (100 MHz) microprocessor

IA-64 ready

Low-profile MD2 form factor for high-density servers

Optional lithium ION battery backup module

Adaptec SCSI RAID 2120S & 2200S

Adaptec SCSI RAID 2120S (1961800)

Adaptec SCSI RAID 2200S (1961700)

Why buy	Advanced-featured, low-profile SCSI RAID for increased data protection and server availability	Advanced-featured, low-profile SCSI RAID for increased data protection and server availability
Customer needs	Ideal for entry-level and high density servers and workstations servers requiring up to 15 disk drives	Ideal for entry-level to mid-range and high density servers and workstations servers requiring up to 30 disk drives
Environment	Entry-level SCSI servers and workstations, pedestal and rackmount	Entry-level SCSI servers and workstations, pedestal and rackmount
Optional battery backup	ABM-300 (order number 1972100) 1 year warranty	ABM-300 (order number 1972100) 1 year warranty
Device support	Up to 15 SCSI devices	Up to 30 SCSI devices (15 per channel)
Data transfer rates	Up to 320 MByte/sec	Up to 640 MByte/sec (across 2 channels)
RAID levels	0, 1, 10, 5, 50, JBOD	0, 1, 10, 5, 50, JBOD
Cache memory	64 MByte embedded	64 MByte embedded
Bus type	64-bit/66MHz PCI	64-bit/66MHz PCI
Internal connectors	One 68-pin high-density	Two 68-pin high-density
External connectors	One 68-pin VHDCI	Two 68-pin VHDCI
System requirements	Intel PC or equivalent with available PCI slot	Intel PC or equivalent with available PCI slot
Operating system support	<ul style="list-style-type: none"> Windows XP, Windows NT, Windows 2000 RedHat and SuSE Linux NetWare and Caldera <i>(for latest supported kernels visit www.adaptec.com)</i>	<ul style="list-style-type: none"> Windows XP, Windows NT, Windows 2000 RedHat and SuSE Linux NetWare and Caldera <i>(for latest supported kernels visit www.adaptec.com)</i>
Key RAID features	<ul style="list-style-type: none"> Optimized disk utilization Online RAID Level Migration Online Capacity Expansion Background initialization S.M.A.R.T and SAF-TE support 	<ul style="list-style-type: none"> Optimized disk utilization Online RAID Level Migration Online Capacity Expansion Background initialization S.M.A.R.T and SAF-TE support
Software in kit	<ul style="list-style-type: none"> Adaptec Storage Manager - Browser Edition BIOS configuration utility Command Line Interface (CLI) 	<ul style="list-style-type: none"> Adaptec Storage Manager - Browser Edition BIOS configuration utility Command Line Interface (CLI)
Cable in kit	One 5-position, Ultra320 SCSI 68-pin high-density LVD Adaptec internal cable with active terminator	One 5-position, Ultra320 SCSI 68-pin high-density LVD Adaptec internal cable with active terminator
Physical dimensions	Low-profile card 2.5in H x 6.6in L 6.4cm H x 16.8cm L	Low-profile card 2.5in H x 6.6in L 6.4cm H x 16.8cm L
Operating temperature	0° to 50° C	0° to 50° C
Power requirements	4 amps @ +5V	4 amps @ +5V
Warranty	3 years	3 years

○ 2120S



○ 2200S



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