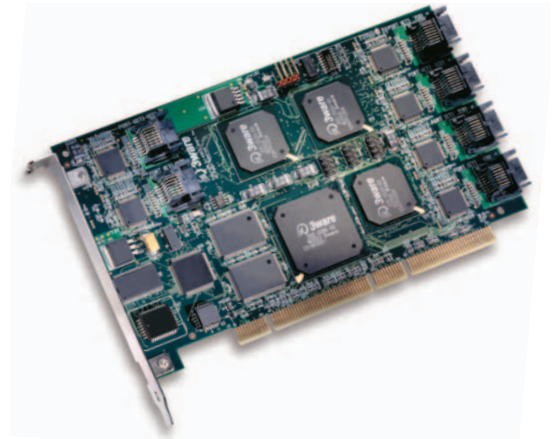




3ware® 8000 Series

High Capacity, Best Value Serial ATA Hardware RAID Controllers



When the challenge is to increase storage capacity while controlling costs, one Serial ATA (SATA) RAID controller family gives IT professionals what they need to accomplish both goals — the 3ware 8000 Series RAID controllers. With the ability to support up to 4 controllers per system, the 3ware 8000 Series can scale capacity to over 12 TB¹.



Benefits

- Supports over 12 TB¹ of storage for very high capacity applications (max 2 TB per array)
- A family of 12, 8, 4, and 2-port controllers simplifies migration as capacity requirements grow
- On-board processor for true hardware RAID means the host CPU is free to manage your applications — not the RAID controller
- Easy-to-use, browser-based software makes configuring and managing RAID systems a breeze
- Best hardware RAID price/performance with 3ware's StorSwitch architecture, providing overall storage scalability

¹ Capacity based on 250 GB SATA drives and four 8506-12 controllers, capacity scales up as drive capacity increases

² 2-port controllers support RAID levels 0, 1, and JBOD

3ware 8000 Series —

Highly Scalable RAID Storage

We combine an advanced switched RAID architecture StorSwitch™ with SATA drives to deliver a highly scalable hardware RAID storage solution. The point-to-point architecture supports up to 12 independent drives per controller allowing full bandwidth to each drive so performance is not compromised as you build large storage solutions. With the ability to support up to four controllers, the 3ware 8000 Series allows systems to be configured with up to 48 drives (maximum of 2 TB per array). This complete family of controllers with options for 12, 8, 4 or 2 drives features a single unified software management suite for all controllers.

In accordance with its comprehensive quality practice, we put all products through stringent testing and work closely with third party hardware and software partners to ensure compatibility.

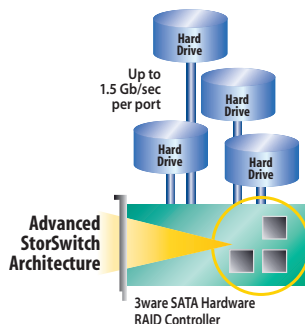
Ensured Data Reliability

RAID is a must in environments where data reliability and retrieval cannot be compromised. The 3ware 8506 SATA RAID controllers support RAID levels 0, 1, 10, 5 and JBOD². Data availability

is maintained with features such as hot spare/hot swap, hot plug, automatic rebuild (when spare drive is available) and dynamic sector repair. Managing the RAID installation is simple with 3ware Disk Manager (3DM®), CLI, S.M.A.R.T. disk monitoring and an integrated BIOS configuration utility. 3ware Disk Manager software is a browser-based management utility for easy local and remote management of arrays (Windows and Linux only).

SATA — The Revolution in Storage

Recent enterprise trends have driven the need to have ready access to data that traditionally was backed up to tape. Serial ATA is a point-to-point interface protocol, designed for improved scalability to meet the demands of high performance storage systems. Each device is cabled directly to the host and has the entire 1.5 Gbits/sec (150 MB) of bandwidth dedicated to it. Combined with technical enhancements in the areas of hot plug capability, signal integrity, reduced pin count, reduced power requirements and longer, thinner 1-meter cables for ease of routing, Serial ATA is a compelling solution for enterprise storage.



APPLICATIONS FOR 3WARE CONTROLLERS



Servers



Security/
Surveillance



Gaming



Video
Editing



Super
Computing



NAS



Video
On-Demand



Workstations



Disk-to-Disk
Backup

3ware® 8000 Series

3ware 8000 Series Features

- Supports up to 12 TB of storage (dependent on drive capacity)
 - Up to 4 cards supported within a system
 - Maximum of 2 TB per RAID array
- StorSwitch point-to-point, non-blocking architecture
- Optimized hardware XOR RAID 5 engine provides true hardware based RAID and intelligent drive management functions
- SCSI device driver model to take advantage of the benefits of SCSI using inexpensive ATA drives
- Remote browser 3ware Disk Manager (3DM) utility with password security for network management of storage arrays
- SMTP support for email/pager notification
- Easy-to-configure arrays from BIOS, 3DM or CLI utilities
- Staggered spin-up to minimize in-rush current at power up
- Bootable array support for greater fault tolerance
- Multiple logical volumes and RAID levels can exist on one card for maximum configuration flexibility
- Hot-swap and hot-spare support for data availability
- Dynamic sector repair for robust data protection
- S.M.A.R.T. disk drive monitoring for reliability
- 2 levels of administrator access to 3DM for added security

3ware 8000 Series Specifications

- Half-length PCI Universal short form factor
- PCI 2.2 compliant 64-bit/66MHz bus master
- Auto-sensing Serial ATA
- BIOS PnP (plug and play) and BBS (BIOS boot specification) support

Operating System Support

- Microsoft® Windows® 2003/XP/2000, RedHat® Linux, SuSE® Linux, FreeBSD

For complete OS listing, go to:

www.3ware.com/support/OS-Support

3ware 8000 Series Specifications

- Calculated MTBF @ 25°C

8006-2LP	1.3 million hours
8506-4LP	1.3 million hours
8506-8	1.2 million hours
8506-12	1.1 million hours
- Operating Temperature

0°C to 50°C

- Power Requirements

2.5W max. on +5 V
6.75W max. on +3.3 V
250mW max. on -12 V, +12V not used
- Dimensions

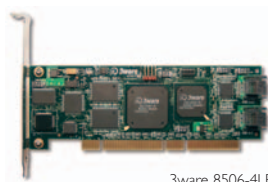
8006-2LP	7.2"L x 2.5"H	(18.288cm x 6.350cm)
8506-4LP	7.2"L x 2.5"H	(18.288cm x 6.350cm)
8506-8	6.875"L x 3.875"H	(17.463cm x 9.843cm)
8506-12	6.875"L x 3.875"H	(17.463cm x 9.843cm)

Service and Support

- 3-year warranty
- Support via the web at www.3ware.com/support
- For latest motherboard and hard drive compatibility listing go to:
www.3ware.com/products/compatibility_sata.asp

Accessories

- RDC-400-SATA: Serial ATA RAID Drive Cage
- CBL-SATA-39: 39" 1m Serial ATA Cable



3ware 8506-4LP



3ware 8506-8

3ware 8000 Series Selection Guide

Model	8006-2LP	8506-4LP	8506-8	8506-12
Drive Support	Up to 2 Serial ATA	Up to 4 Serial ATA	Up to 8 Serial ATA	Up to 12 Serial ATA
RAID Levels	0, 1, JBOD	0, 1, 10, 5, JBOD	0, 1, 10, 5, JBOD	0, 1, 10, 5, JBOD
Target Markets	Workstations, Gaming Video Editing	Departmental Servers, Security and Surveillance, Disk-to-Disk Backup	Departmental Servers, NAS Storage, Security and Surveillance	Disk-to-Disk Backup,



AMCC reserves the right to make changes to its products, or to discontinue any product or service without notice, and advises its customers to obtain the latest version of relevant information to verify, before placing orders, that the information being relied upon is current.

AMCC is a registered trademark of Applied Micro Circuits Corporation. 3ware, SwitchedRAID and 3DM are registered trademarks in the United States and StorSwitch is a trademark in the United States, of Applied Micro Circuits Corporation. All other trademarks are the property of their respective holders. Copyright © 2004 Applied Micro Circuits Corporation. All Rights Reserved.
DS8000_04/15/04



Sales Offices for 3ware Products:

USA: +1-877-883-9273
+1-408-523-1000
Europe: +00-800-3927-3000
Asia/Pacific: +65-6826-3381
Japan: +81-3-5532-7234

3waresales@amcc.com
www.3ware.com
www.amcc.com