



## 3ware® 8006-2LP

### High Value 2-Port Serial ATA Hardware RAID Controller



AMCC's 3ware 8006-2LP SATA RAID controller delivers performance, robust fault tolerance with data mirroring for maximum protection, and storage capacity to 1 TB. Combined with an advanced RAID management feature set that includes remote management capabilities, the 8006-2LP is the industry's most compelling PCI to SATA RAID solution.



#### Highlights

- Supports 1 TB of storage using 500 GB SATA drives
- True hardware RAID protection for all your valuable data
- Advanced, easy-to-use RAID management and configuration suite
- Best hardware RAID price/performance
- StorSwitch™ non-blocking switch fabric architecture for maximum controller throughput
- RAID levels 0, 1, and JBOD

#### High Performance RAID Storage on Budget

AMCC's 3ware 8006-2LP Serial ATA (SATA) RAID controller economically delivers full-featured true hardware RAID to servers and PC workstations. The 3ware 8006-2LP is a half length low profile 2-port controller. Combined with an advanced RAID management feature set that includes web-based, command-based, and API software components, the 8006-2LP is the industry's most compelling SATA RAID solution for the budget-conscious IT professional. Intelligently engineered in close collaboration with third party motherboard and drive manufacturers, the 3ware 8006-2LP sets the standard for seamless integration.

utility. 3DM software is a browser based management utility for easy local and remote array management in Windows, Linux, and FreeBSD O/S environments.

#### SATA — The Storage Revolution

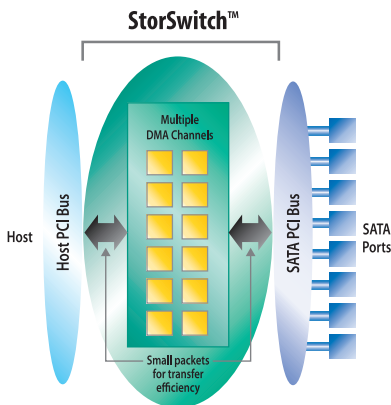
Serial ATA provides performance, reliability, ease of configuration, and power consumption advantages over parallel ATA, as well as significant cost advantages over SCSI. SATA is a point-to-point interface protocol designed for improved scalability to meet the performance demands of servers and PC workstations. Each device is attached directly to the host to deliver 1.5 Gbits/sec (150 MB) bandwidth to each drive via thin, flexible, one meter SATA data cables.

#### Enterprise-class Data Reliability and Management

True hardware RAID is a requirement in IT environments where data availability is paramount. All AMCC 3ware RAID controllers incorporate onboard I/O offload processors to deliver true hardware RAID. Software RAID schemes use the system's processor, exploit host memory, compromise reliability and potentially rob the system of CPU cycles. The 3ware 8006-2LP supports RAID levels 0, 1, and JBOD.

The 3ware 8006-2LP capitalizes on technical advancements in the areas of hot plug capability, signal integrity, reduced pin count, reduced power requirements and longer, thinner cables for simplified routing. The 8006-2LP RAID controller, with the advantages of Serial ATA connectivity, is a compelling solution for enterprise storage installations and PC workstations alike.

Managing RAID installations is simple with 3ware Disk Manager (3DM®), CLI, S.M.A.R.T. disk monitoring and an integrated BIOS configuration



#### APPLICATIONS FOR 3WARE CONTROLLERS



## 3ware® 8000 Series

### 3ware 8000 Series Features

- Supports 1 TB of storage (dependent on drive capacity)
- StorSwitch point-to-point, non-blocking switched architecture
- On-board processor allows true hardware-based RAID and intelligent drive management functions
- SCSI device driver model takes 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
- 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
- Low Profile
- 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](http://www.3ware.com/support/OS-Support)

### 3ware 8000 Series Specifications

- Calculated MTBF @ 25°C
  - 1.3 million hours
  - 1.3 million hours
  - 1.2 million hours
  - 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
  - 7.2"L x 2.5"H (18.288cm x 6.350cm)

### Service and Support

- 3-year warranty
- Support via the web at [www.3ware.com/support](http://www.3ware.com/support)
- For latest motherboard and hard drive compatibility listing go to: [www.3ware.com/products/compatibility\\_sata.asp](http://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 8006-2LP Quick Reference Guide

<b>Form Factor</b>	Half length/low profile
<b>Port Count</b>	2
<b>Drive Support</b>	Up to 2 Serial ATA
<b>Host Interface</b>	PCI
<b>Host Interface Speed</b>	64-bit/66MHz
<b>Connector Type</b>	Discrete
<b>RAID Levels</b>	0, 1, and JBOD
<b>Target Markets</b>	Servers, workstations, gaming, video editing



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