

# Model PM3334/W



## Ultra SCSI RAID Adapters

### DESCRIPTION

#### The SmartRAID IV Product Family

DPT has been providing RAID solutions for PCs longer than anyone else, and that experience is incorporated into the 4th generation designs offered by SmartCache IV Ultra SCSI RAID adapters. These high-performance Ultra SCSI RAID adapters offer the ultimate in performance, flexibility and reliability needed in today's server environment.

SmartRAID IV adapters come in either single, double or triple channel adapter models (PM3334/UWx series). The single channel adapter can be upgraded to double or triple channel support by the addition of the optional SX4030 SCSI Channel Expansion Module.

All DPT products accept either industry standard 72-pin SIMMs for caching, or you may choose to use DPT's SmartCorrect ECC-protected memory. Available in 4MB or 16MB sizes, the SM4000 SIMMs provide complete error correction for data stored in DPT cache. When used with supported drives, SmartCorrect ECC protection is written across the SCSI cable down to the drive level to assure complete protection for mission critical data.

All DPT products come with Storage Manager, award-winning storage management software utility. Storage Manager automatically installs all your SCSI peripherals, and handles more complex tasks such as RAID setup with point-and-click simplicity.

### FEATURES

- **On-Board High Performance Processor Optimized for Handling Complex RAID Algorithms**
- **SCSI, SCSI-2, SCSI-3 and Ultra Wide SCSI Support With Active Termination**
- **Supports up to 40MB/s Ultra Wide Synchronous SCSI Transfers**
- **Overlapped I/O and Tagged Command Queuing for Increased SCSI Performance**
- **Compatible With All Major Operating Systems**
- **Four On-Board SIMM Sockets Support for up to 64MB of Hardware Cache**
- **Support for Hardware RAID 0, 1 and 5**
- **Equipped With Flash ROM for Easy Firmware Upgrades**
- **Optional Error Correcting Memory and Data Path Protection**
- **Includes Storage Manager Software for Easy Installation, RAID Setup and Maintenance, Advanced Storage Diagnostics and Performance Tuning**

## DESCRIPTION CONT.

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### Benefits

#### Hardware RAID for ultimate performance

Unlike some RAID adapters that offer only software RAID, the SmartRAID adapters provide hardware RAID support for levels 0, 1 and 5. This assures you of the best performance along with the ability to combine similar RAID types into arrays of a virtually unlimited capacity.

#### Multi-Channel Upgradable

SmartRAID IV adapters allow you to add extra SCSI channels onto the base, single channel adapter. Starting with the base adapter, you can add support for one or two additional SCSI channels, providing support for up to 45 devices from a single slot. SmartRAID IV adapters are also available in two and three channel models.

### The Best Operating System Support

Sure, SmartRAID has drivers for NT and NetWare like everyone else. But DPT high-performance drivers are also rolled into more OS's than any other SCSI RAID adapter. So you'll find support for DPT in SCO Unix, UnixWare, Banyan Vines, Sunsoft Solaris, PICK, MUMPS, NEXTSTEP, and many more. No one has broader OS support.

### Installation is a Snap

All SmartRAID products come with Storage Manager, our award-winning storage management software utility. If all you want to do is quickly install your drives and CD-ROM, then installation is two keystrokes away. Want to install more complicated setups like RAID? No problem. Setting up disk arrays with Storage Manager is a simple process of point-and-click.

## SPECIFICATIONS

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### Host interface

16-bit ISA, 32-bit EISA

### On-board CPU

68040, 40Mhz

### Max Host Transfer Rate

132MB/sec

### SCSI Interface

SCSI, SCSI-2, SCSI-3, Fast, Fast Wide, Fast-20 Wide Scatter/Gather, Command Queuing, Disconnect/Reconnect

### Max SCSI Transfer Rate

Ur to 40MB/second Fast-20 Wide Synchronous

### SCSI Bus

16-bit single ended, active termination

### Internal Port

68-pin high density

### External Port

68-pin high density

### Maximum Cache\*

Up to 64MB

### RAID Support\*

0, 1 and 5

\*with optional RC4040 or RC4041 RAID/Caching Module

## DC POWER REQUIREMENTS

### Voltage

5VDC +/- 5% @ 2.2A typ

### Ripple and Noise

50mV peak-to-peak max

## ENVIRONMENTAL SPECIFICATIONS (OPERATING)

### Ambient Temperature

0 to 50 C

### Relative Humidity

10% to 90% non-condensing

### Altitude

10,000 feet (3,000 meters)

## ORDERING GUIDE

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### SMARTRAID IV SCSI RAID ADAPTERS

**Model PM3224/90**

PCI to SCSI Smart RAID adapter (supports 7 SCSI devices)

**Model PM3224/W**

PCI to Wide SCSI Smart RAID adapter (supports 15 SCSI devices)

**Model PM3334/UW**

PCI to Ultra SCSI, Single bus

**Model PM3334/UW2**

PCI to Ultra SCSI, 2 SCSI busses

**Model PM3334/UW3**

PCI to Ultra SCSI, 3 SCSI busses

### SMARTRAID IV MODULES

**Model SX4000/1**

Expansion Module for 1 additional SCSI channel, for PM3224/90 (7 devices)

**Model SX4000/2**

Expansion Module for 2 additional SCSI channels, for PM3224/90 (14 devices)

**Model SX4000/1W**

Expansion Module for 1 additional SCAI channel, for PM3224/W (7 devices)

**Model SX4000/2W**

Expansion Modules for 2 additional SCSI channels, for PM3224/W (14 devices)

**Model SX4030/1UW**

Expansion Module for SmartRAID IV, adds 1 Ultra Wide SCSI bus to PM3334/UW

**Model SX4030/2UW**

Expansion Module for SmartRAID IV, adds 2 Ultra Wide SCSI busses to PM3334/UW

### SMARTCORRECT ECC MEMORY

**Model SM4000/4**

4MB SmartCorrect ECC-protected SIMM memory

**Model SM4000/16**

16MB SmartCorrect ECC-protected SIMM memory

