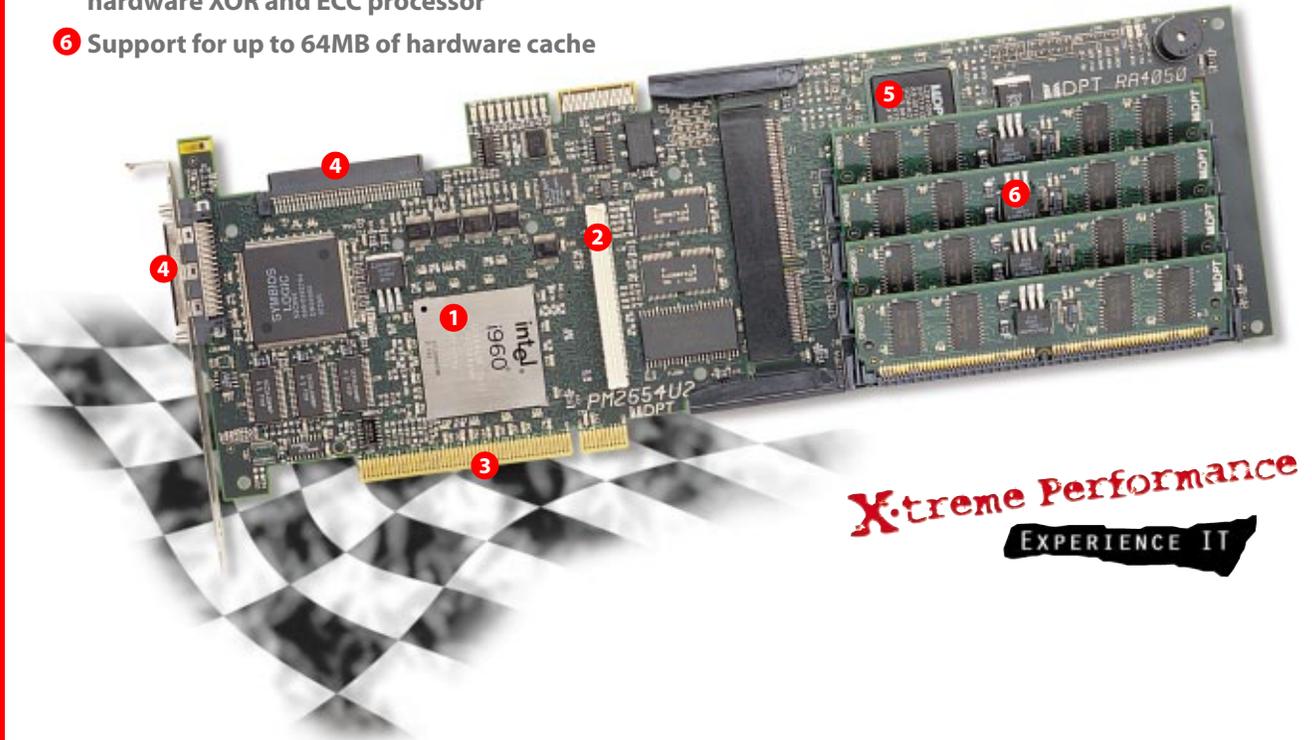


### ULTRA2 SCSI RAID CONTROLLER

- 1 Intel® i960® RD processor for peak performance
- 2 Expansion Modules add 1 or 2 additional Ultra2 SCSI channels or 1 Fibre Channel Arbitrated Loop
- 3 PCI 132MB/s data transfers, 32-bit, 33MHz
- 4 Internal and external 68-pin SCSI connectors
- 5 Includes high-speed RAID data path engine, hardware XOR and ECC processor
- 6 Support for up to 64MB of hardware cache



**X-treme Performance**  
EXPERIENCE IT

#### Features:

- Fully I<sub>2</sub>O<sup>®</sup> compliant
- Controls SCSI-1, SCSI-2 or SCSI-3 devices
- Controls Wide or Narrow Ultra2, Ultra or Fast SCSI devices with up to 80MB/s transfer rate
- Controls up to 15 SCSI devices per channel
- Up to 12 meter SCSI cable length
- Integrated hardware RAID 0, 1, 5, 0+1 and 0+5
- 4 SIMM sockets support up to 64MB of hardware cache (DPT ECC EDO or industry standard EDO SIMMs)
- Expansion Modules add 1 or 2 additional Ultra2 SCSI channels or 1 Fibre Channel Arbitrated Loop
- PCI 2.1 compliant with 132MB/s bus mastering
- Intel i960 RD processor for ultra-low host CPU utilization
- SCSI SCRIPTS<sup>®</sup> processor for maximum SCSI performance
- Very high-density SCSI connector allows 3 external SCSI channels from one slot
- Flash-upgradable firmware and BIOS
- Supports SAF-TE, SES and DEC Fault Bus for intelligent storage cabinets
- Dynamic Array Expansion permits drives to be added on-the-fly to existing arrays
- Easy-to-use GUI Storage Management Software
- BIOS-based SCSI and RAID configuration utility

# PM2654U2-R Technical Specifications

## Expansion Modules

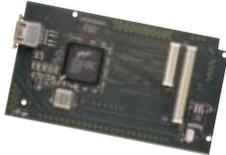
### SX4054U2 SCSI Expansion Modules

add one (SX4054U2-1) or two (SX4054U2-2) additional Ultra2 SCSI channels to any SmartRAID V SCSI controller, supporting up to 45 SCSI devices from a single PCI slot. Supports Fast and Ultra SCSI devices as well.



### SX4055F Fibre Expansion Module

adds one Fibre Channel Arbitrated Loop port to any SmartRAID V SCSI or Fibre Channel controller, controlling up to 126 Fibre Channel devices.



**SM4050 ECC EDO SIMMs** provides 16MB (SM4050-16) or 64MB (SM4050-64) of high-speed disk cache for SmartRAID V controllers, plus DPT's exclusive SmartCorrect™ ECC technology which detects and corrects up to 32-bit data errors. (SmartRAID V controllers also accept industry standard EDO 4MB, 16MB or 64MB SIMMs.)



## Management Utilities

**Storage Manager™** is a window into your storage system. This user-friendly, self-installing, GUI-based utility provides:

- Easy, point-and-click creation, deletion and maintenance of disk arrays
- Array diagnostics
- Event logging and notification
- I/O load monitoring
- Device identification, status, and inventory
- Supports Windows® 95/98, NT®, NetWare®, SCO® Unix®, UnixWare® and others
- Remote management of NT, NetWare, SCO Unix, UnixWare and other servers via TCP/IP or modem connection
- Online help

**SMOR** (Storage Manager On ROM) is a BIOS-based set-up utility that allows you to quickly configure SmartRAID controllers and attached devices without having to boot an operating system. Features include:

- Device identification, status, and inventory
- Configure controller hardware options
- Low-level formatting hard drives
- Create and delete disk arrays
- View and modify RAID configurations

## ● SCSI Features

<b>SCSI Interface</b>	Ultra2 SCSI-3
<b>Maximum SCSI Transfer Rate</b>	80MB/s
<b>SCSI Bus</b>	16-bit with multi-mode SE/LVD termination
<b>Number of SCSI Busses</b>	1 (upgradable to 3)
<b>Maximum Number SCSI Devices</b>	15 (upgradable to 45)
<b>External SCSI Connector</b>	68-pin Very High Density Cable Interconnect (VHDCI)
<b>Internal SCSI Connector</b>	68-pin High Density

## ● PCI Features

<b>Host Interface</b>	32-bit PCI 2.1
<b>Maximum PCI Transfer Rate</b>	132MB/s

## ● Operating Environments

- Microsoft® Windows® NT® 4.0, SCO® 3.2.4.2, SCO OpenServer 5, NetWare® 4.11, UnixWare® 2.1.4.2, SCO UnixWare 7, OS/2®, Win 95/98
- I<sub>2</sub>O compliant
- Compatible with I<sub>2</sub>O block storage or SCSI OSMs provided with Windows NT, SCO, NetWare

## ● Power Requirements

<b>Voltage</b>	5V +/- 5%
<b>Ripple and Noise</b>	50mV peak-to-peak max
<b>Current</b>	2.0A typical

## ● Reliability

<b>MTBF</b>	> 400,000 Hours
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## ● Environmental Specifications (operating)

<b>Ambient Temperature</b>	0° to 50° C
<b>Relative Humidity</b>	10% to 90% non-condensing
<b>Altitude</b>	3,000 meters (10,000 feet)

## ● Agency Certifications

FCC, CE, UL, CSA, AUSTEL, SMA

## ● Complete Kit Contents

- PM2654U2-R Ultra2 SCSI RAID Controller
- Ultra2 Wide internal SCSI cable with multi-mode terminator, supports 4 SCSI devices
- Storage Management software
- I<sub>2</sub>O device drivers
- User's Manual and Quick Install Guide



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