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Adaptec ASR-7805 Datasheet



Adaptec ASR-7805 2274100-R 6Gb/s PCIe Gen3 x8 8-port Internal SAS/SATA RAID Adapter

ASR-7805

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The PMC Adaptec 7805 SAS/SATA 6Gb/s PCIe Gen3 RAID adapter provides a low-profile/MD2 form-factor solution, delivers exceptional performance and is ideal for value server platforms.

Operating System

- Microsoft Windows
- Red Hat Linux
- SUSE Linux
- Fedora
- Debian Linux
- Ubuntu Linux
- Sun Solaris
- FreeBSD
- VMware ESX

For a detailed list see ASK Answer ID 17239.

Benefits

- Ideal for entry-level server to high-end server platforms and high-performance workstations without compromising robust 6Gb/s performance and proven Adaptec reliability.

Customer Needs

- High I/O transaction and high bandwidth processing; solutions that reduce energy consumption and maintenance costs.

Key Software Features

- Optimized Disk Utilization
- Supported RAID levels: 0, 1, 1E, 5, 6, 10, 50, 60
- HBA Mode and Simple Volume Mode for automatic deployment
- Supports up to 256 SAS or SATA devices using SAS expanders
- Hybrid RAID 1 & 10
- Quick initialization
- Online Capacity Expansion
- Copyback Hot Spare
- Dynamic caching algorithm
- Native Command Queuing (NCQ)
- Background initialization
- Hot-plug drive support
- RAID Level Migration
- Hot spares - global, dedicated, and pooled
- Automatic/manual rebuild of hot spares
- SES and SAF-TE enclosure management
- Configurable stripe size
- S.M.A.R.T. support
- Multiple arrays per disk drive
- Dynamic sector repair
- Staggered drive spin-up
- Bootable array support
- Support for Tape Devices, Autoloaders

Management Utilities

Software

- Adaptec maxView Storage Manager
- Web based GUI Management Utility
- OS Support: Windows, Linux, Solaris VMware
- Remote configuration, monitoring & notification
- Remote firmware updates
- SMI-S Support
- SMTP

ARCCONF

- Command Line Interface
- SMI-S support for VMware

Adaptec BIOS Configuration Utility (ACU)

- BIOS level configuration utility
- Flashable BIOS support

Adaptec uEFI BIOS Configuration Utility

- HII based confi guration utility
- Flashable BIOS support

Data Transfer Rate

- 6 Gb/s per port

Bus System Interface

- 8-lane PCIe Gen3

Form Factor

- MD2 – Low Profile

Cache Memory

- 1024MB

Connector Configuration

- Two internal mini SAS HD (SFF-8643)

Package Contents

- Adaptec RAID 7805 adapter
- Additional low profile vented bracket
- Cables: Two internal mini SAS HD (SFF-8643), 0.8 meter*

*Single does not include cables or Quick Installation Guide

Physical Size

- 2.535"H x 6.6"L (64mm x 167mm)

Operating Temperature

- 0°C to 55°C* (with 200 LFM airflow without AFM-700) 0°C to 50°C* (with 200 LFM airflow with AFM-700) Note: This Adaptec card contains a powerful RAID processor which requires adequate airflow to operate reliably. Please install this card only into server or PC chassis with recommended airflow (200 LFM). * Ambient temperature measured 1" away from the RAID processor

Operating Voltage

- 0.1A @ 3.3VDC 1.5A @ 12VDC measured on PCIe Gen3 systems with 6G drives

Regulatory Certification

- CE, FCC, UL, C-tick, VCCI, KCC, CNS

Environmental Compliance

- RoHS

Mean Time Before Failure (MTBF)

- 700,000 hours at 40°C

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