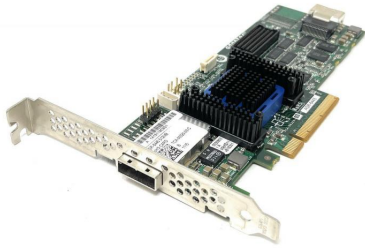# Adaptec ASR-6445 Datasheet

Adaptec ASR-6445 2270200-R 6Gb/s 8-port (4 internal/4 external) PCIe Gen 2 x8 SAS SATA RAID Controller

ASR-6445

Adaptec ASR-6445 2270200-R 6Gb/s 8-port (4 internal/4 external) PCIe Gen 2 x8 SAS SATA RAID Controller

8 port (4 internal/4 external), low profile, SAS 2.O and Gen 2 PCI-Express (PCIe) Unified Serial RAID controller with Zero-Maintenance Cache Protection and Intelligent Power Management delivers exceptional performance, advanced data protection, maximum scalability and the lowest total cost of ownership for enterprise-class, high-density server applications

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 17078.

Benefits

- Performance Unified Serial RAID controller supports both SATA and SAS devices. Ideal for bandwidth intensive storage applications; NAS, OLTP servers, web servers, and digital surveillance. Offers Zero-Maintenance Cache Protection and Intelligent Power Management.

Key Differentiators

- Zero-Maintenance Cache Protection

- Intelligent Power Management

Customer Needs

- High I/O transaction and high bandwidth processing.

Form Factor

- MD2 Low-Profile

Cache Memory

- 512MB of DDR2 667MHz cache memory

RAID Levels

- RAID levels 0, 1, 1E, 5, 5EE, 6, 10, 50 and 60

Key RAID Features

- Supports up to 256 SATA or SAS devices using SAS expanders
- RAID levels 0, 1, 1E, 5, 5EE, 6, 10, 50, 60 and JBOD
- 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
- Optimized Disk Utilization

Bus System Interface Type

- 8-lane PCIe Gen2

External Connectors

- 1 external (SFF-8088) Mini SAS

Internal Connectors

- 1 internal (SFF-8087) Mini SAS

Data Transfer Rate

- 6 Gb/s per port

Package Contents

- Adaptec RAID 6445 Controller
- Additional low profile vented bracket

Warranty

- 3 years

Management Utilities

- 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

Physical Size

2.5" H x 6.6" L (64mm x 167mm)

Operating Temperature

- 0°C to 55°C* (with 200 LFM airflow; without flash module)

- 0°C to 50°C* (with 200LFM airflow; with flash module)

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

- 0.17 amp @ 3.3V

- 1.25 amp @ 12V measured on PCIe Gen 2 systems with 6G drives

Regulatory Certification

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

Environmental Compliance

- RoHS, REACH

Mean Time Before Failure (MTBF)

- 862,728 hours at 40 degree C.

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