# Adaptec ASR-6805E Datasheet



Adaptec ASR-6805E 2270900-R 6Gb/s PCIe Gen2 x4 8-Port Int.SAS/SATA RAID Controller

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8 internal port, low-profile MD2 with PCIe x4, SAS 2.0 and Gen 2 PCI-Express (PCIe) Unified Serial RAID adapter with On-Board DRAM and Intelligent Power Management delivers the ideal price/performance and connectivity solution for entry-level server platforms, workstations and desktop systems

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 17115.

Benefits

- Ideal for desktop use and entry-level server platforms, workstations or industrial PCs without compromising robust 6Gb/s performance and proven Adaptec reliability.

Key Differentiators

- Intelligent Power Management

Customer Needs

- High I/O transaction and high bandwidth processing; reduces energy consumption

Form Factor

- MD2 - Low Profile

Cache Memory

- 128MB

Key RAID Features

- Supports up to 4 (6405E) or 8 (6805E) SATA or SAS devices
- SES and SAF-TE enclosure management
- RAID levels 0, 1, 10, 1E, and JBOD
- 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

- 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

- 4-Lane PCIe Gen2

Internal Connectors

- 2 internal (SFF-8087) Mini SAS

Data Transfer Rate

- 6 Gb/s per port

Package Contents

- Adaptec RAID 6805E Adapter

- Additional low profile vented bracket Cable: two Mini SAS x4 to (4x) SATA fanout cables w/ sideband (2272300-R), 0.7 meter

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

- 2.535"H x 6.095"L (64mm x 155mm)

Operating Temperature

- 0°C to 55°C* (with 200 LFM airflow)

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

- 0.125A @ 3.3VDC

- 0.80A @ 12VDC 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)

- 860,953 hours at 40 degree C.

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