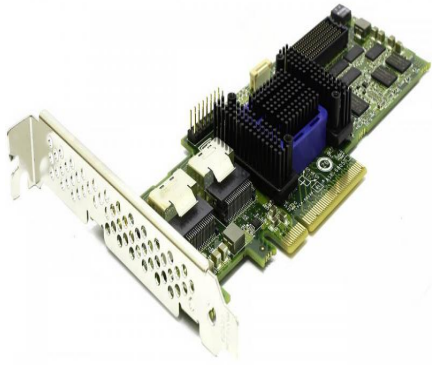# Adaptec ASR-6805T Datasheet

Adaptec ASR-6805T 2272800-R 6Gb/s 8 Internal Top-mounted Ports PCIe Gen 2 x8 SAS SATA RAID Controller

ASR-6805T

Adaptec ASR-6805T 2272800-R 6Gb/s 8 Internal Top-mounted Ports PCIe Gen 2 x8 SAS SATA RAID Controller

8 internal top-mounted ports, low profile, SAS 2.0 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

For a detailed list see ASK Answer ID 17137 .

Benefits

- 6Gb/s performance Unified Serial RAID controllers support both SATA and SAS devices and offer unique features including Zero Maintenance Cache Protection and Intelligent Power Management. Ideal for bandwidth intensive storage applications; NAS, online transaction processing servers (OLTP), web servers, digital surveillance and streaming applications.
- For dense-server applications Series 6T with recessed top-mounted connectors provide maximum hardware flexibility and all the same performance and features as Series 6.

Key Differentiators

- Zero-Maintenance Cache Protection

- Intelligent Power Management

Customer Needs

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

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, 60 and JBOD

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
- 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
- Optimized Disk Utilization

Bus System Interface Type

- 8-lane PCIe Gen 2

Internal Connectors

- 2 Internal SFF-8087
- Top Mounted

Data Transfer Rate

- 6 Gb/s per port

Package Contents

- Adaptec RAID 6805T 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)

Operating Voltage

- 0.17 amp @ 3.3V

- 1.25 amp @ 12V measured on PCIe Gen2 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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