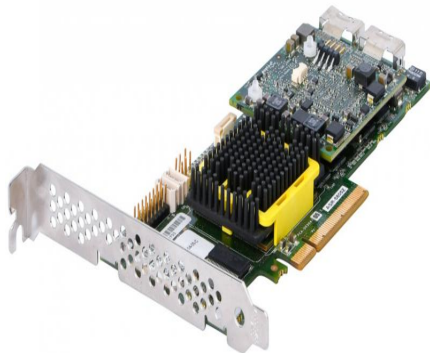# Adaptec ASR-5805Z Datasheet

Adaptec ASR-5805Z 2266900-R 3GB/s 8-port PCIe x8 SAS/SATA RAID Controller with 512MB Cache

ASR-5805Z

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

Supported Operating Systems

- Microsoft Windows
- Red Hat Linux
- SUSE Linux
- SCO OpenServer
- UnixWare
- Sun Solaris
- FreeBSD
- VMware

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 memory

RAID Levels

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

Key RAID Features

- Supports 8 direct-attached or up to 256 SATA or SAS disk drives   using SAS expanders
- RAID levels 0, 1, 1E, 5, 5EE, 6, 10, 50 and 60
- 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
- SAF-TE enclosure management
- Configurable stripe size
- S.M.A.R.T. support
- Up to 512TB array sizes
- Multiple arrays per disk drive
- Bad stripe table
- Dynamic sector repair
- Staggered drive spin-up
- Bootable array support
- Optimized Disk Utilization

Bus System Interface Type

- 8-lane PCIe

Internal Connectors

- 2 internal (SFF-8087) Mini SAS

Data Transfer Rate

- 3 Gb/s per port

Package Contents

- Adaptec RAID 5805Z Controller
- Additional low profile vented bracket
- Quick Installation Guide
- (English/French/German/Italian/Spanish)
- Software and documentation CDs

Warranty

- 3 years

Management Utilities

- Adaptec Storage Manager™ (ASM)

- Java-based GUI Management Utility
- Remote configuration, monitoring & notification
- ASM OS Support: Windows, Linux, SCO, Solaris, FreeBSD
- Microsoft VDS Support
- SNMP, SMTP
- Remote firmware updates

ARCCONF

- Command Line Interface
- SMI-S support for VMware

Adaptec BIOS 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)

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

- 0.40 amp @ 3.3V

- 1.2 amp @ 12V

Regulatory Certification

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

Mean Time Before Failure (MTBF)

- 873,402 hours at 40 degree C.

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