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Adaptec RAID 6405E

4 internal port, low-profile MD2 - Low Profile (2.535"H x 5.115"L) with PCIe x1, 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

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

Customer Needs

High I/O transaction and high bandwidth processing.

Form Factor

MD2 - Low Profile (2.535"H x 5.115"L)

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

Package Content

- Adaptec RAID 6405E Adapter
- Additional low profile vented bracket
- Cable: one Mini SAS x4 to (4x) SATA fanout cable 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 5.115” L (64mm x 130mm)

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

0.11A @ 3.3VDC
0.75A @ 12VDC measured on PCIe Gen 2 systems with

- 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

1-Lane PCIe Gen2

Internal Connectors

1 internal (SFF-8087) Mini SAS

Data Transfer Rate

6 Gb/s per port

6G drives

Regulatory Certification

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

Environmental Compliance

RoHS, REACH

Mean Time Before Failure (MTBF)

889,115 hours at 40 degree C.

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