

Adaptec 3Gb/s SATA and SAS HBA Family 1045, 1405



Non-RAID Unified Serial HBAs offer economical I/O with broad device compatibility, scalability and flexibility

The Series 1 family of Adaptec by PMC Unified Serial™ host bus adapters (HBA) offers the ideal economical solution for customers requiring I/O connectivity with hard disk drives (HDDs), tape drives, tape libraries, tape autoloaders, solid state drives (SSDs), RBODs, removable media or removable HDDs.

Flexible, Scalable, Customizable

Utilizing Adaptec's Unified Serial architecture, Series 1 HBAs support both Serial ATA (SATA) and Serial Attached SCSI (SAS) interfaces, providing flexibility to use cost-effective, high-capacity SATA drives and/or high-performance SAS drives. Compatibility with HDDs, tape drives, SSDs, RBODs, and removable media enables system builders to develop server, storage, and backup solutions tailored to meet specific customer needs.

These Series 1 HBAs also support SAS expanders, allowing end users to scale-up and design an optimal price-per-drive solution.

Used as a non-RAID HBA, end users can customize their data protection solution to meet their application-specific requirements. The low-profile form factor allows installation into all server and storage designs, while the PCIe x4 bus and SAS interface allow for maximum I/O throughput.

Broad Operating System Support

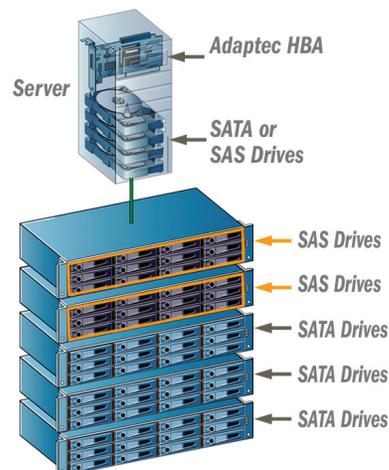
Extensive operating system support includes major software releases for Windows 2003, XP, Vista, 2008, Red Hat Enterprise Linux and SUSE Linux Enterprise Server.

Compatibility, Reliability, and Support

The Series 1 HBA family has been extensively tested with third-party systems and devices to deliver the utmost in compatibility. It is backed by a three-year warranty and the company's legendary technical support.

Product Highlights

- ▶ 3Gb/s throughput at each port
- ▶ Unified Serial Architecture supports SATA and SAS HDDs, tape drives, SSDs
- ▶ Support for SAS expanders supporting up to 128 devices
- ▶ Enclosure management support via LED header and SES2 / SGPIO
- ▶ PCIe x4 host interface
- ▶ Low-profile MD2 form factor
- ▶ Driver support for Windows and Linux



Example of tiered storage built on Unified Serial™ Architecture

Adaptec SATA and SAS HBA Family (1045, 1405)

Adaptec Unified Serial HBA Family	
Why to buy?	Cost effective I/O solution supporting SATA and SAS HDDs, tape drives, SSDs, RBODs, removable media/HDDs.
Customer Needs	Non-RAID I/O connectivity offering broad compatibility, support for SAS expanders, and enclosure management; flexibility to install SATA and SAS drives.
Features	<ul style="list-style-type: none"> – Four 3Gb/s ports – Unified Serial Architecture supports SATA and SAS HDDs, tape drives, SSDs – Support for SAS expanders – Enclosure management support via LED header and SES2/SGPIO – PCIe x4 host interface – Low-profile MD2 form factor
Management Utilities	Adaptec BIOS Configuration Utility
Operating Systems	<ul style="list-style-type: none"> – Windows 2003, XP, Vista, 2008 – Red Hat Enterprise Linux – SUSE Linux Enterprise Server
Physical Dimensions	4.43" L x 2.54" H (113mm x 65mm)
Operating Temperature	0°C to 55°C
Operating Voltage	3.3V +/-9%
Regulatory Certification	FCC, C-tick, CE, VCCI
MTBF	Adaptec 1405: 3,553,408 hours Adaptec 1045: 3,683,106 hours
Warranty	Three years
Accessories	No battery option Serial Attached SCSI (SAS) cables (www.adaptec.com/SAScables)

Adaptec HBA	1405	1405	1045
Order Part Number	2256100-R (Kit)	2256000-R (Single)	2259500-R (Single)
Form Factor	MD2 - Low Profile	MD2 - Low Profile	MD2 - Low Profile
Ports	4 internal	4 internal	4 external
Connectors	1 SFF-8087 (int.)	1 SFF-8087 (int.)	1 SFF-8088 (ext.)
Bus Interface	4-Lane PCIe	4-Lane PCIe	4-Lane PCIe
Fanout Cable	Yes (Qty 1)	No	No



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