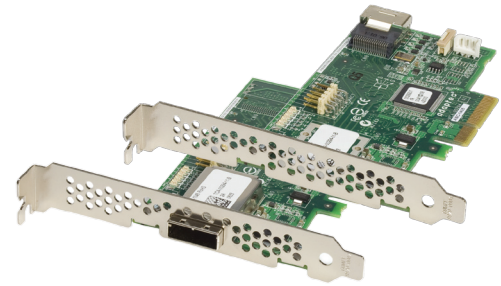


Adaptec SATA and SAS HBA Family 1045, 1405



The Series 1 family of Adaptec 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 Adaptec Unified Serial 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

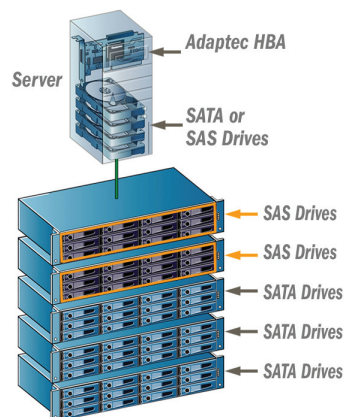
Extensive operating system support includes major software releases for Windows 2003, XP, Vista, 2008, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, and FreeBSD. The latest operating system drivers are available on the Adaptec support website, www.adaptec.com/support.

Compatibility, Reliability, and Support

Adaptec has been delivering storage and I/O solutions to the industry for more than 26 years. Adaptec is the undisputed I/O solutions leader and no other vendor's technology is more proven. The Adaptec Unified Serial 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 industry-leading Adaptec technical support.

Product Highlights

- Four 3Gb/s ports
- 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 – FreeBSD 6.3, 7
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



adaptec®

Adaptec, Inc.
691 South Milpitas Boulevard
Milpitas, California 95035
Tel: (408) 945-8600
Fax: (408) 262-2533

World Wide Web: www.adaptec.com

Pre-Sales Support: US and Canada: 1 (800) 442-7274 or (408) 957-7274

Pre-Sales Support: Europe: Tel: (44) 1276-854-500 or Fax: (44) 1276-854-505

Copyright 2008 Adaptec, Inc. All rights reserved. Adaptec, the Adaptec logo, the Unified Serial icon, and Storage Manager are trademarks of Adaptec, Inc., which may be registered in some jurisdictions. Windows, Windows 2000, Windows Server 2003, and Windows XP are registered trademarks of Microsoft Corporation, used under license. All other trademarks used are owned by their respective owners. Information supplied by Adaptec Inc., is believed to be accurate and reliable at the time of printing, but Adaptec Inc., assumes no responsibility for any errors that may appear in this document. Adaptec, Inc., reserves the right, without notice, to make changes in product design or specifications. Information is subject to change without notice.