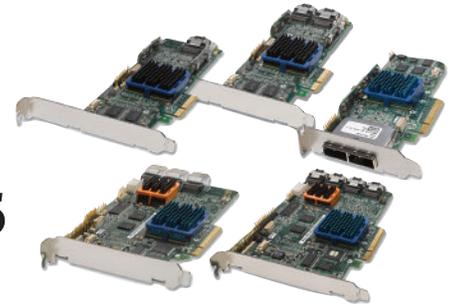


# Adaptec® SATA & SAS RAID 3405, 3805, 3085, 31205, 31605



Unified Serial™ controllers deliver scalability and flexibility for high-capacity SATA drives or high-performance SAS drives

Adaptec Unified Serial controllers deliver the ultimate in flexibility and performance for customers who need either high-capacity Serial ATA (SATA) drives or high-performance Serial Attached SCSI (SAS) drives, or the ability to integrate both in a single system. Leveraging SAS technology, these controllers deliver the richest feature set in the market.

### Adaptec Unified Serial RAID

This Adaptec RAID controller family is a full line of Unified Serial RAID controllers designed for entry to mid-range servers and workstations.

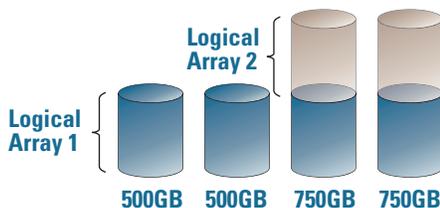
### Hardware features

These controllers support a PCI Express host interface and up to 256MB ECC-protected data cache. An efficient Intel processor delivers excellent performance with low thermal output. The family includes 4- and 8-port models as well as industry-first 12- and 16-port designs. The new Adaptec RAID 3085 with two x4 connectors also offers the industry's first path failover for external data path redundancy.

### Advanced data protection

Adaptec RAID Code (ARC) delivers the industry's most advanced feature set. The Adaptec Advanced Data Protection Suite delivers improved hot spare performance (RAID 5EE) and a patented RAID 6/60 technology allowing for up to two simultaneous drive failures.

#### Optimized Disk Utilization

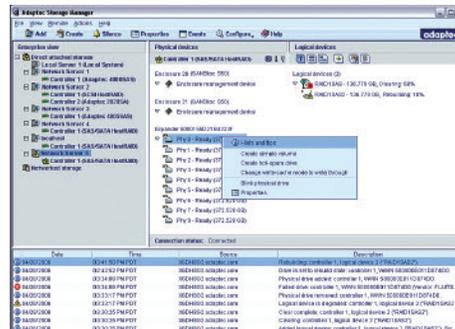


Excess capacity used to create another array.

ARC supports array sizes up to 512TB — allowing full usage of new, higher capacity SATA drives. Optimized Disk Utilization offers the ability to create arrays and utilize all available capacity on dissimilar drive sizes. As disk drive capacities grow, replacing a failed drive no longer results in wasted space on new larger drives, increasing the value of existing investments.

### Easy-to-use storage management

This Adaptec Unified Serial RAID family operates under Adaptec Storage Manager™, a one-view tool that centralizes management of all Adaptec RAID products. The software enables remote configuration and monitoring of RAID arrays through secure, encrypted communications. The intuitive management tool simplifies RAID array creation and management pop-up tips and online help.



### Compatibility, reliability, and support

Adaptec has been delivering storage and I/O solutions for more than 24 years. In fact, Adaptec is the undisputed RAID leader; no other vendor's technology is more proven. The Adaptec RAID Unified Serial family has been extensively tested with third-party components to deliver the utmost in compatibility. The cards are backed by a 3-year warranty and legendary Adaptec technical support.

### Product Highlights

- SATA and SAS compliant
- PCI Express host interface
- 3Gb/s per port
- RAID levels 0, 1, 1E, 10, 5, 50, 5EE, 6, 60
- LED header for drive activity and failure indication
- SES2 and SGPIO enclosure management
- Up to 256MB DDR2 fixed data cache
- Operating system support for Windows, Linux, NetWare, SCO Unix, Sun Solaris x86, and FreeBSD
- RoHS compliant

## Adaptec® SATA &amp; SAS RAID

| Adaptec Unified Serial Controller Family     |   |
|--|---|
| <b>Why to buy?</b>                           | Affordable Unified Serial RAID controllers support both SATA and SAS devices. Ideal for workstations, and entry to mid-range servers.   |
| <b>Customer Needs</b>                        | Affordability and performance with an advanced feature set for customers needing storage flexibility and capacity growth.   |
| <b>System Environment</b>                    | Intel IA32, EM64T, and AMD64  |
| <b>RAID Features</b>                         | <ul style="list-style-type: none"> <li>• Supports up to 128 SAS or SATA devices (depending on server design)</li> <li>• RAID Levels 0, 1, 10, 5, 50*, JBOD</li> <li>• Advanced Data Protection Suite               <ul style="list-style-type: none"> <li>• RAID Levels 1E (Striped Mirror), 5EE (Hot Space), 6 and 60* (Dual Drive Failure Protection)</li> <li>• Copyback Hot Spare</li> <li>• Snapshot Backup (optional)</li> </ul> </li> <li>• Dynamic caching algorithm</li> <li>• Online Capacity Expansion</li> <li>• RAID Level Migration</li> <li>• Optimized Disk Utilization</li> <li>• Quick Initialization</li> <li>• Native Command Queuing (NCQ)</li> </ul> <ul style="list-style-type: none"> <li>• Hot spares – global, dedicated, and pooled</li> <li>• Background initialization</li> <li>• Automatic/manual rebuild of hot spares</li> <li>• SAF-TE enclosure management support</li> <li>• Configurable stripe size</li> <li>• S.M.A.R.T. support</li> <li>• Up to 512TB array sizes</li> <li>• Multiple arrays and types per disk drive</li> <li>• Bad stripe table</li> <li>• Dynamic sector repair</li> <li>• Staggered drive spin-up</li> <li>• Bootable array support</li> <li>• Hot-plug drive support</li> <li>• Redundant path failover</li> </ul> |
| <b>Management Utilities</b>                  | Adaptec Storage Manager™ (ASM) <ul style="list-style-type: none"> <li>• Java-based GUI Management Utility</li> <li>• Remote configuration, monitoring &amp; notification</li> <li>• ASM OS Support: Windows, Linux, SCO, Solaris, NetWare</li> <li>• Microsoft VDS Support</li> <li>• SNMP, SMTP</li> <li>• Simultaneous remote firmware updates</li> </ul> ARCCONF <ul style="list-style-type: none"> <li>• Command Line Interface</li> </ul> Adaptec BIOS Configuration Utility (ACU) <ul style="list-style-type: none"> <li>• BIOS level configuration utility</li> <li>• Flashable BIOS support</li> </ul>  |
| <b>Operating System</b>                      | • Windows 2000, XP, Server 2003, Vista, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES), Novell NetWare 6.5, SCO OpenServer, UnixWare, Sun Solaris 10 x86, FreeBSD   |
| <b>Physical Dimensions</b>                   | 3405/3805/3085<br>2.5"H x 6.6"L (167mm x 64 mm) <span style="float: right;">31205/31605<br/>4.6"H x 6.6"L (167mm x 116 mm)</span>   |
| <b>Operating Temperature (incl. battery)</b> | 0°C to 45°C (without airflow)<br>0°C to 55°C (with airflow)   |
| <b>Operating Voltage</b>                     | 1 amp @ 3.3V  |
| <b>Regulatory Certification</b>              | FCC, C-tick, CE, VCCI   |
| <b>Warranty</b>                              | 3 years   |
| <b>Accessories</b>                           | Snapshot Backup Key (2228200) <span style="float: right;">Adaptec Battery Module 800 (2248000-R)</span>   |

\* Expander is necessary for Adaptec 3405

| Adaptec RAID         | 3405                | 3805                | 3085                | 31205                     | 31605                     |
|----------------------|---------------------|---------------------|---------------------|---------------------------|---------------------------|
| Ordering Part Number | 2251800-R (Kit)     | 2252100-R (Kit)     | 2251600-R (Kit)     | 2252600-R (Sgl)           | 2252900-R (Sgl)           |
| Form Factor          | MD2 - Low Profile   | MD2 - Low Profile   | MD2 - Low Profile   | Half Length / Full Height | Half Length / Full Height |
| Ports                | 4                   | 8                   | 8                   | 12                        | 16                        |
| Connectors           | 1 internal SFF-8087 | 2 internal SFF-8087 | 2 external SFF-8088 | 3 internal SFF-8087       | 4 internal SFF-8087       |
| Bus Interface        | 4-lane PCIe         | 4-Lane PCIe         | 8-Lane PCIe         | 8-Lane PCIe               | 8-Lane PCIe               |
| Processor            | Intel 80333 500MHz  | Intel 80333 500MHz  | Intel 80333 800MHz  | Intel 80333 800MHz        | Intel 80333 800MHz        |
| Cache                | 128MB               | 128MB or 256MB      | 256MB               | 256MB                     | 256MB                     |



## adaptec®

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

World Wide Web: [www.adaptec.com](http://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 2007 Adaptec, Inc. All rights reserved. Adaptec, the Adaptec logo, Storage Manager, and Storage Manager Pro are trademarks of Adaptec, Inc., which may be registered in some jurisdictions. Microsoft, Windows, Windows NT, and Windows 2000, 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.