

# Compatibility Data Sheet

For Adaptec HBAs, RAID Controllers and Seagate HDDs



| INTERNAL HBA AND RAID CONTROLLERS |                |                                    |   |                        |                             | COMPATIBLE HARD DISK SERIES   |
|-----------------------------------|----------------|------------------------------------|---|------------------------|-----------------------------|---|
| Model                             | Interface      | Type                               | Features and RAID Levels                            | Internal Connectors    | External Connectors         | Seagate SAS & SATA drives   |
| Adaptec RAID<br>51245/51645/52445 | 8 lane<br>PCIe | Unified Serial<br>RAID             | 0/1/1E/5/5EE/6/10/50/60/<br>JBOD                    | 3x, 4x, 6x<br>SFF-8087 | 1x SFF-8088                 | Savvio 15k.1<br>Savvio 10k.2<br>Cheetah 15k.6<br>Cheetah 15k.5<br>Barracuda ES.2 SATA<br>Barracuda ES.2 SAS |
| Adaptec RAID<br>5405/5805/5445    | 8 lane<br>PCIe | Unified Serial<br>RAID             | 0/1/1E/5/5EE/6/10/50/60/<br>JBOD                    | 1x, 2x SFF-<br>8087    | 1x SFF-8088<br>(5445 only)  |   |
| Adaptec RAID<br>31205/31605       | 8 lane<br>PCIe | Unified Serial<br>RAID             | 0/1/1E/5/5EE/6/10/50/60/<br>JBOD                    | 3x, 4x SFF-<br>8087    | none                        |   |
| Adaptec RAID<br>3405/3805         | 4 lane<br>PCIe | Unified Serial<br>RAID             | 0/1/1E/5/5EE/6/10/50/60/<br>JBOD                    | 1x, 2x SFF-<br>8087    | none                        |   |
| Adaptec 2405                      | 8 lane<br>PCIe | Unified Serial HBA<br>with HW RAID | 0/1/10/JBOD   | 1x SFF-<br>8087        | none                        |   |
| Adaptec 2045                      | 8 lane<br>PCIe | Unified Serial HBA<br>with HW RAID | 0/1/10/JBOD   | none                   | 1x SFF-8088                 |   |
| Adaptec RAID<br>3085/5085         | 8 lane<br>PCIe | Unified Serial<br>RAID             | 0/1/1E/5/5EE/6/10/50/60/<br>JBOD Dual path failover | none                   | 2x SFF-8088                 |   |
| Adaptec<br>44300/48300            | PCI-X          | Unified Serial HBA                 | 0/1/10/JBOD   | 1x SFF-<br>8484        | 1x SFF-8470<br>(48300 only) |   |
| Adaptec 58300                     | PCI-X          | Unified Serial HBA                 | 0/1/10/JBOD   | none                   | Two, 4x SFF-<br>8470        |   |

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| SEAGATE HDD MODELS  |                     |             |                     |                         |                         |                 |
|---------------------|---------------------|-------------|---------------------|-------------------------|-------------------------|-----------------|
| Family              | Models (P/N)        | Form Factor | Spindle Speed (RPM) | Interface               | Typical Seek Time (ms)  | Capacities (GB) |
| Savvio 15k.1        | ST973451SS          | 2.5"        | 15k                 | SAS (3Gb/s)             | 2.9 (read)              | 73GB            |
|                     | ST936751SS          |             |                     |                         | 2.9 (read)              | 36GB            |
| Savvio 10k.2        | ST9146802SS         | 2.5"        | 10k                 | SAS (3Gb/s)             | 3.8 (read), 4.4 (write) | 146GB           |
|                     | ST973402SS          |             |                     |                         | 3.8 (read), 4.4 (write) | 73GB            |
| Cheetah 15k.6       | ST3450856SAS/FC     | 3.5"        | 15k                 | FC/SAS (3Gb/s)          | 3.4 (read), 3.9 (write) | 450GB           |
|                     | ST3300656SAS/FC     |             |                     |                         |                         | 300GB           |
|                     | ST3146356SAS/FC     |             |                     |                         |                         | 146GB           |
| Cheetah 15k.5       | ST3300655L/LC/FC/SS | 3.5"        | 15k                 | FC/SCSI 320/SAS (3Gb/s) | 3.5 (read), 4.0 (write) | 300GB           |
|                     | ST3146855L/LC/FC/SS |             |                     |                         |                         | 147GB           |
|                     | ST373455L/LC/FC/SS  |             |                     |                         |                         | 73GB            |
| Barracuda ES.2 SATA | ST31000340NS*       | 3.5"        | 7200                | SATA (3Gb/s)            | 8.5 (read), 9.5 (write) | 1TB             |
|                     | ST3750330NS*        |             |                     |                         |                         | 750GB           |
|                     | ST3500320NS*        |             |                     |                         |                         | 500GB           |
|                     | ST3250310NS*        |             |                     |                         |                         | 250GB           |
| Barracuda ES.2 SAS  | ST31000640SS        | 3.5"        | 7200                | SAS (3Gb/s)             | 8.5 (read), 9.5 (write) | 1TB             |
|                     | ST3750630SS         |             |                     |                         |                         | 750GB           |
|                     | ST3500620SS         |             |                     |                         |                         | 500GB           |

\* Minimum firmware level AN05 required.

Notes: Not all current Seagate HDD or Adaptec controllers are included in the above lists.

The list represents combinations of HDD which have been tested with specific controllers however there is no reason to believe that unlisted models of HDD would not operate correctly (they have just not been tested at this time)

Further compatibility information can be found at [www.adaptec.com/compatibility](http://www.adaptec.com/compatibility) and also at <http://www.seagate.com>

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## PRODUCTS

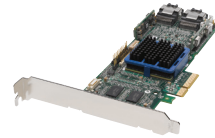
**adaptec**<sup>®</sup>  
www.adaptec.com



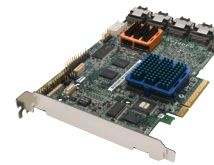
**Adaptec RAID 5805**  
8-port, PCIe, RAID 0, 1,  
1E, 5, 5EE, 6, 10, 50, 60



**Adaptec RAID 52445**  
24+4-port, PCIe, RAID 0, 1,  
1E, 5, 5EE, 6, 10, 50, 60



**Adaptec RAID 3805**  
8-port, PCIe, MD2 low-  
profile, RAID 0, 1, 1E, 5,  
5EE, 6, 10, 50, 60



**Adaptec RAID 31605**  
16-port, PCIe, RAID 0, 1,  
1E, 5, 5EE, 6, 10, 50, 60



**Adaptec RAID 2405**  
4-port, PCIe, RAID 0, 1,  
10 and JBOD

**Seagate**   
www.seagate.com



**Savio 15K**



**Savio 10K.2**



**Cheetah 15K.5**



**Cheetah 15K.6**



**Barracuda ES2 SAS**



**Barracuda ES2 SATA**