

## Compatibility List for: Adaptec Serial ATA II RAID 2420SA Adaptec Serial ATA II RAID 2820SA

This Compatibility Report reflects testing performed by Adaptec to test the interoperability of the products listed. It does not attempt to validate the quality of or preference for any of the listed products. It is also not an inclusive list and reflects a representative sample of products in each of the categories listed. All testing was done by the Adaptec Product Verification Group and the Adaptec InterOperability Test Lab.

Minimum testing for listed host systems consists of single and multiple RAID controller recognition, RAID controller BIOS interaction with host, and operating system bootability from each RAID controller from every compatible PCI, PCI-X, or PCIe slot. Systems that are capable of supporting more than 4GB and more than 8GB of memory are also tested in operating system environments that support such a configuration. Please note that some systems or motherboards may be listed multiple times if different system BIOS or CPU configurations were used.

| Host Systems |                   |                            |             |         |         |         |          |       |               |             |               |             |                           |        |               |
|--------------|-------------------|----------------------------|-------------|---------|---------|---------|----------|-------|---------------|-------------|---------------|-------------|---------------------------|--------|---------------|
| Manufacturer | Model             | BIOS                       | Chipset     | PCIe x1 | PCIe x4 | PCIe x8 | PCIe x16 | PCI-X | PCI 64 (3.3v) | PCI 64 (5v) | PCI 32 (3.3v) | PCI 32 (5v) | CPU                       | Memory | Memory Type   |
| Dell         | PowerEdge 690     | A04                        | Intel 5000X | 1       | 0       | 1       | 0        | 2     | 0             | 0           | 1             | 0           | Intel Pentium D 3.0 Ghz   | 2GB    | DDR-2 533/667 |
| Dell         | PowerEdge 830     | A04                        | Intel E7320 | 1       | 0       | 1       | 0        | 2     | 0             | 0           | 1             | 0           | Intel Pentium D 3.0 Ghz   | 2GB    | DDR-2 533/667 |
| Dell         | PowerEdge SC1430  | Phoenix BIOS Version 1.3.0 | Intel 5000V | 0       | 2       | 0       | 0        | 2     | 0             | 0           | 0             | 1           | Intel Xeon 3.0Ghz         | 2GB    | DDR2-444      |
| Dell         | Precision 490     | A02                        | Intel 5000X | 0       | 0       | 3       | 3        | 2     | 0             | 0           | 1             | 0           | Intel Xeon 3.2Ghz Dempsey | 8GB    | DDR-2 533/667 |
| Dell         | Precision 670     | A07                        | Intel E7525 | 0       | 1       | 0       | 1        | 3     | 0             | 0           | 0             | 0           | Intel Xeon 3.0GHz EM64T   | 6GB    |               |
| HP           | ProLiant ML370 G4 | HP BIOS P50                | Intel E7520 | 0       | 2       | 0       | 0        | 4     | 0             | 0           | 0             | 0           | Intel Xeon 3.0 Ghz        | 2GB    | DDR2-400      |
| HP           | xw8200            | 786B8 v2.08                | Intel 7525  | 0       | 0       | 1       | 1        | 3     | 0             | 0           | 0             | 2           | Intel                     | 2GB    | DDR-2 400     |
| Intel        | SE7520AF2         | AMI P12                    | Intel E7520 | 0       | 0       | 2       | 0        | 3     | 0             | 0           | 0             | 0           | Xeon 3.4GHz               | 2GB    | DDR2-333      |
| Intel        | SE8500HW4         | AMI P03                    | Intel 8500  | 0       | 0       | 4       | 0        | 3     | 0             | 0           | 0             | 0           | Xeon 3.6GHz               | 1GB    | DDR2 400      |
| Intel        | SR1500 (S5000PAL) | BIOS 66 FW 55 FRUSDR 38a   | Intel 5000P | 0       | 0       | 1       | 0        | 1     | 0             | 0           | 0             | 0           | (2) DualCore Xeon 3.0GHz  | 1GB    |               |
| Intel        | SR2500 ALBRP      | BIOS 79 BMC 59 FRU 42      | Intel 5000P | 0       | 0       | 1       | 0        | 1     | 0             | 0           | 0             | 0           | Dual Core Xeon 3.0GHz     | 1GB    |               |
| Supermicro   | CSE-733TQ         | Phoenix 1.1C               | Intel 5000  | 0       | 1       | 1       | 0        | 1     | 0             | 0           | 0             | 1           | Dual Xeon 3.0GHz          | 2GB    |               |

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|            |                     |                        |   |   |   |   |   |   |   |   |   |   |                                  |      |               |
|------------|---------------------|------------------------|---|---|---|---|---|---|---|---|---|---|----------------------------------|------|---------------|
| Supermicro | H8DME               | Phoenix 1.1C           | Nvidia MCP55 Pro  | 0 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | AMD                              | 2GB  | DDR-2 533/667 |
| Supermicro | X6DA3-G2            | Phoenix 2.0b           | Intel E7525   | 0 | 1 | 0 | 1 | 3 | 0 | 0 | 0 | 1 | Intel Xeon 3.80GHz               | 2GB  | DDR2-400      |
| Supermicro | X6DH3-G2            | Phoenix 1.3a           | Intel E7520   | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 1 | Xeon 3.0GHz                      | 2GB  | DDR2-400      |
| Supermicro | X6DH3-G2            | Phoenix 2.0b           | Intel E7520   | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 1 | Xeon 3.2GHz                      | 2GB  | DDR2-400      |
| Supermicro | X6DH8-G2            | Phoenix 2.0            | Intel E7520   | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 1 | Xeon 3.4GHz                      | 1GB  | DDR2-400      |
| Supermicro | X6DHT-G2            | Phoenix 1.3c           | Intel E7520   | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 1 | Xeon 2.8GHz                      | 1GB  | DDR2-400      |
| Supermicro | X6DHT-G2            | Phoenix 2.0b           | Intel E7520   | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 1 | Xeon 2.8GHz                      | 1GB  | DDR2-400      |
| Supermicro | X7DB3               | Phoenix 1.2            | Intel 5000P   | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | Xeon 3.2GHz Dual                 | 4GB  | DDR2-667      |
| Supermicro | X7DBE               | Phoenix 1.2            | nVidia nForce Pro 2200 and Pro 2050                             | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | Dual Core Xeon 3.0Ghz            |      | DDR-2 533/667 |
| Supermicro | X7DBR-3             | R1.2                   | Intel 5000P   | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | Dual Core Xeon 1.6GHz            | 1GB  | DDR2-667      |
| Supermicro | X7DVA-E             | Phoenix 2.0b           | Intel 5000V   | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | Intel Xeon 3.0GHz                | 2GB  | DDR-2 533/667 |
| Tyan       | S3992               | 1.02                   | National PC87417 + Broadcom BCM5780 (HT2000) & BCM5785 (HT1000) | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 1 | 0 | (2) Dual-Core AMD Opteron 2.6GHz | 4GB  | DDR2          |
| Tyan       | S5362 Thunder i7522 | Phoenix 1.0 (02/06/06) | Intel E7520   | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 1 | Xeon 3.2GHz 64Bit - Dual         | 8GB  | DDR2-400      |
| Tyan       | S5372               | S5372-LC_v301          | Intel 5000V   | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | Intel Xeon 3.0GHz                |      | DDR-2 533/667 |
| Tyan       | Thunder K8SE S2892  | Phoenix 2.03           | nVidia nForce 4 Pro 2200  | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 1 | Opteron 148 - Dual               | 16GB | DDR-400       |
| Tyan       | Thunder K8SE S2892  | Phoenix 2.0            | Nvidia Nforce 4 Pro2200   | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 1 | Opteron 248                      | 4GB  | DDR-400       |
| Tyan       | Thunder K8WE S2895  | Phoenix 1.01.2895      | Nvidia Nforce 2200, 2050,                                       | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 1 | Opteron 1.8GHz-Dual              | 6GB  | DDR2-400      |

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|  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  | AMD 8131 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

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Minimum testing for listed hard drives consists of recognition on each RAID controller model and 24 hours of data integrity I/O stress load on each RAID Level under a variety of RAID states (optimal, suboptimal, degraded, compressed, expanded, and migrating). Please note that some drive models may be listed twice if more than one drive firmware revision was tested.

| Hard Drives |              |                 |             |          |
|-------------|--------------|-----------------|-------------|----------|
| Type        | Manufacturer | Model           | FW Revision | Capacity |
| SATA        | Fujitsu      | MHV2040B        | 00000028    | 40GB     |
| SATA        | Fujitsu      | MHV2080BH       | 0028        | 80GB     |
| SATA        | Fujitsu      | MHV2100BT       | 0028        | 100GB    |
| SATA        | Fujitsu      | MHV2160BT       | 0013        | 160GB    |
| SATA II     | Hitachi      | HDS721010KLA330 | GKAOA70F    | 1TB      |
| SATA II     | Hitachi      | HDS721050KLA330 | GK6OA70M    | 500GB    |
| SATA II     | Hitachi      | HDS721075KLA330 | GK8OA70M    | 750GB    |
| SATA        | Hitachi      | HDS72400KLSA80  | KFA0        | 400GB    |
| SATA        | Hitachi      | HDS725050KLA360 | K2A0        | 500GB    |
| SATA II     | Hitachi      | HDT722516D2A380 | VA30A9BA    | 164GB    |
| SATA        | Hitachi      | HDT722525DLA380 | V440        | 250GB    |
| SATA        | Hitachi      | HDT72500KLA360  | K2A0        | 500GB    |
| SATA        | Hitachi      | HDT725032VLA360 | V540        | 250GB    |
| SATA II     | Hitachi      | HDT725040VLA360 | V5COA52A    | 400GB    |
| SATA        | Hitachi      | HTS541080G9SA00 | MB4OC60R    | 80GB     |
| SATA II     | Hitachi      | HUA721010KLA330 | GKAOA70M    | 1TB      |
| SATA        | Maxtor       | 6H400F0         | HA43        | 400GB    |
| SATA        | Maxtor       | 7H500S0         | HA43        | 500GB    |
| SATA II     | Maxtor       | 7L250S0         | BACE1G90    | 250GB    |
| SATA II     | Maxtor       | 7L300S0         | BACE1G90    | 300GB    |
| SATA        | Maxtor       | 7Y250M0         | YAR5        | 250GB    |
| SATA        | Samsung      | HD040GJ         | WY10        | 40GB     |
| SATA        | Samsung      | HD160JJ         | WU10        | 160GB    |
| SATA        | Samsung      | SAMSUNG HM060II | YB100-04    | 60GB     |
| SATA II     | Samsung      | SP2004C         | VM100-41    | 200GB    |
| SATA        | Seagate      | ST3120023AS     | 3.01        | 120GB    |
| SATA II     | Seagate      | ST316022AS      | 3.AEE       | 160GB    |
| SATA II     | Seagate      | ST3160827AS     | 3.42        | 160GB    |
| SATA II     | Seagate      | ST3200827AS     | 3.AAE       | 200GB    |
| SATA        | Seagate      | ST3250632NS     | 5.01        | 250GB    |
| SATA        | Seagate      | ST3250820NS     | 3.AEG       | 250GB    |

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| Hard Drives |                 |                   |             |          |
|-------------|-----------------|-------------------|-------------|----------|
| Type        | Manufacturer    | Model             | FW Revision | Capacity |
| SATA II     | Seagate         | ST340060NS        | 3.AEE       | 250GB    |
| SATA II     | Seagate         | ST3400633AS       | 3.AAE       | 400GB    |
| SATA II     | Seagate         | ST3400633NS       | 3.AEH       | 400GB    |
| SATA        | Seagate         | ST3400821NS       | 5.01        | 400GB    |
| SATA        | Seagate         | ST3400832NS       | 5.01        | 400GB    |
| SATA II     | Seagate         | ST3400833NS       | 3.AE        | 400GB    |
| SATA II     | Seagate         | ST3500641AS       | 3.AAE       | 500GB    |
| SATA        | Seagate         | ST3500641NS       | 3.AE        | 400GB    |
| SATA II     | Seagate         | ST3500841NS       | 3.AEH       | 500GB    |
| SATA II     | Seagate         | ST3750640NS       | 3.AEG       | 750GB    |
| SATA II     | Seagate         | ST3808110AS       | 3.AAE       | 80GB     |
| SATA        | Western Digital | WD1500ADFD-00NLR  | 20.0        | 150GB    |
| SATA        | Western Digital | WD2000JS-00MHB0   | 02.0        | 200GB    |
| SATA        | Western Digital | WD2500JS-00MHB0   | 02.0        | 250GB    |
| SATA II     | Western digital | WD2500YS-01S      | 6C03        | 250GB    |
| SATA II     | Western digital | WD2500YS-01SHB0   | 20.06C03    | 250GB    |
| SATA II     | Western Digital | WD3200JS-00PDB0   | 21.00M21    | 320GB    |
| SATA        | Western Digital | WD3200SD-01KNB    | 08.05J08    | 320GB    |
| SATA II     | Western Digital | WD3200YS-01PGB0   | 21.00M21    | 320GB    |
| SATA        | Western Digital | WD4000KS-00MNB0   | 06.0        | 400GB    |
| SATA        | Western Digital | WD4000YR-01PLB0   | 01.06A01    | 400GB    |
| SATA        | Western Digital | WD5000AAKS-0      | 11.02       | 500GB    |
| SATA II     | Western Digital | WD5000AAKS-01TMA  | 2N112N11    | 500GB    |
| SATA II     | Western Digital | WD5000KS-00MNB0   | 06.02E06    | 500GB    |
| SATA II     | Western Digital | WD740ADFD-00NLR   | 20.0        | 74GB     |
| SATA II     | Western Digital | WD7500AYYS-01RCA0 | 30.04G30    | 750GB    |
| SATA        | Western Digital | WD800BD-08MRA1    | 10.0        | 80GB     |

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Minimum testing for listed drive enclosures consists of recognition on each RAID controller model and 24 hours of data integrity I/O stress load on each RAID Level under a variety of RAID states (optimal, suboptimal, degraded, compressed, expanded, and migrating). For enclosures that have a FW Revision associated with them, indicating an intelligent backplane, activity and fault LEDs on the enclosure were also tested.

| Enclosure |                   |                     |                 |                      |                |                 |           |
|-----------|-------------------|---------------------|-----------------|----------------------|----------------|-----------------|-----------|
| Type      | Manufacturer      | Model               | Expander Vendor | Expander FW Revision | SEP Vendor     | SEP FW Revision | # of Bays |
| SAS/SATA  | Area Data Systems | RX190A              | N/A             | N/A                  | N/A            | N/A             | 2         |
| SAS/SATA  | Chenbro           | RM31212B            | N/A             | N/A                  | N/A            | N/A             | 16        |
| SAS/SATA  | Chenbro           | RM32216             | N/A             | N/A                  | N/A            | N/A             | 16        |
| SAS/SATA  | CI Design         | SR524               | N/A             | N/A                  | N/A            | N/A             | 24        |
| SATA      | Enhance Tech      | QuadraPack Q14SA    | N/A             | N/A                  | N/A            | N/A             | 4         |
| SAS/SATA  | Enhance Tech      | QuadraPack Q14SS    | N/A             | N/A                  | N/A            | N/A             | 4         |
| SAS/SATA  | Enhance Tech      | StorPack S35        | N/A             | N/A                  | N/A            | N/A             | 5         |
| SAS/SATA  | Icy Dock          | MB453IPF-B          | N/A             | N/A                  | N/A            | N/A             | 3         |
| SAS/SATA  | Intel             | SC5400 AXX6DRV3G    | N/A             | N/A                  | N/A            | N/A             | 6         |
| SAS/SATA  | Intel             | SR1500 ASR1500PASBP | N/A             | N/A                  | Vitesse VSC410 | N/A             | 3         |
| SAS/SATA  | Intel             | SR2500              | N/A             | 2.05                 | Vitesse VSC410 | 0a.44           | 5         |
| SATA      | Promise           | SuperSwap 4100      | N/A             | N/A                  | N/A            | N/A             | 4         |
| SAS/SATA  | Promise           | SuperSwap 4600      | N/A             | N/A                  | N/A            | N/A             | 4         |
| SAS/SATA  | Super Micro       | CSE-733TQ-645       | N/A             | N/A                  | AMI MG9071     | 0007            | 4         |
| SATA      | Super Micro       | CSE-M35T-1          | N/A             | N/A                  | N/A            | N/A             | 5         |
| SAS/SATA  | Super Micro       | CSE-M35TQ           | N/A             | N/A                  | AMI MG9072     | 0003            | 5         |
| SAS/SATA  | Super Micro       | SC815TQ-R650V(B)    | N/A             | N/A                  | AMI MG9071     | 0007            | 4         |

**Note:**

If you encounter problems with a certain system or device, check the manufacturer for the latest BIOS or microcode. Go to the Adaptec web site frequently for the latest updated list at <http://www.adaptec.com/compatibility>

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