

ADDONICS TECHNOLOGIES
ADSA4R-ML (MultiLane 4X SATA RAID Controller Card)

SPECIFICATIONS

Chip Set: Silicon Image Sil3114 Integrated Host Controller

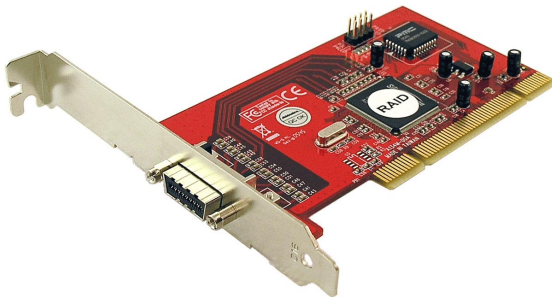
Interface: PCI bus compatible

I/O Ports: Infiniband 4X Multilane SATA Cable

Regulatory approvals: FCC, CE

Features:

- Serial ATA (SATA) – 1.5 Gbps (150MB/s)
- Compliant with SATA 1.0 Specification
- 48-bit LBA support
- Four independent DMA channels with 256MB FIFO per channel
- Virtual DMA in PCI with serial link in legacy PIO mode
- Supports command buffering for ATA TF shadow registers
- Independent 256-byte FIFOs (32 bit * 64 deep) per Serial ATA channel host reads and writes
- Built in firmware RAID support for RAID 0, 1, 10 or 1+S
- Hot-Plug capable
- Supports ATAPI devices: CD-ROM, DVD-ROM, etc.
- 32 bit, 33/66MHz fully compliant PCI Host Interface



System Requirements:

- Computer with one available PCI/PCI-X slot
- Windows 2000/XP/2003 server

RAID Described

Stripe (RAID 0): Greatly increases the performance of data transfer by simultaneously writing data to 2 drives.

Mirror (RAID 1): duplicates or mirrors the data on both drives. No data will be lost if one of the drives fails.

Mirror-Striping (RAID 1+0) Combined both Striping and Mirroring technologies to provide both the performance enhancements that come from Striping and the data availability and integrity that come from Mirroring.

RAID 1+S (Mirrored-Sparing) Can automatically replace the failed drive and rebuild the system when booting HDD failed.

INSTALLATIONS

Software Installation:

Note: Install the SATA Utilities from the CD that came with your package first before installing the Host Controller.

- A. From the CD start-up menu select SATA Utilities. Select Model #ADSA4R-ML.
- B. Unzip the file on your drive. Folder name is Java_RAID_GUI-113_for non-raid5 card.
- C. On the Gui folder under ADSA4R-ML, install j2re-1_4_2-windows-i586-iftw (JRE). Next, install Java_SATARaid_GUI-v113 (SATARAID5 software).

Hardware Installations:

1. Power OFF PC and remove its cover.
2. Select an empty PCI slot and insert the SATA Controller.
3. Makes sure to secure the bracket with a screw.
4. Close the PC's cover.

Windows 2000, XP, 2003 server Driver Installations

1. Turn computer ON. When Windows boots up, "A New Hardware Found" pops on the screen and the Addonics Serial ATA PCI Host Controller is identified.
2. At the "Add New Hardware Wizard Window, click "Next"
3. Choose "Select for the best driver for your devices", and click "Next"
4. If using a driver that has not been digitally signed by Microsoft, you will be asked if you want to continue the installation. Click Continue.
5. When the new hardware wizard has finish installing the Serial ATA card. Click "Finish" to complete the installations.

Confirming Serial ATA Driver Installation

1. Right click the My Computer icon and select properties.
2. Click Device Manager in the Menu Tree.
3. Click the "+" sign in front of SCSI controllers. Silicon Image SATA controller should appear.

Important Note:

- To do a RAID SET, you can press F4 or CTRL+S from the boot up screen. Read and follow the instruction inside the BIOS screen.
- You can also install the SATA GUI utility Under Windows to monitor the RAID Set. It is under the Utility section of the driver disc.

TECHNICAL SUPPORT

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