

ADDONICS TECHNOLOGIES
ADST114R5 (4-Port SATA PCI RAID5/JBOD Controller Card)

SPECIFICATIONS

Chip Set: Silicon Image Sil3114 Integrated Host Controller

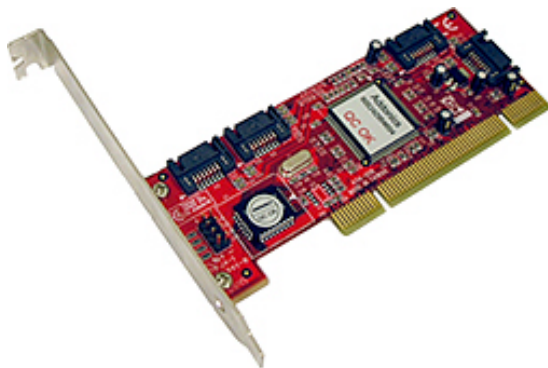
Interface: PCI bus compatible

I/O Ports: (4) SATA Connectors

Regulatory approvals: FCC, CE

Features:

- Four high speed Serial ATA interface ports, each supporting 1st generation Serial ATA data rates (1.5Gb/s).
- Fully compliant with Serial ATA 1.0 specifications.
- Compliant with 32-bit, 33/66MHz PCI 2.2 host interface.
- Integrated PCI DMA engines
- Compliant with PCI Specification, revision 2.2
- RAID 5 (Distributed Parity RAID) has Highest Read data transaction rate and Good aggregate transfer rate
- JBOD is a virtual disk that combines all disk drives as one entire disk drive
- Supports Spread Spectrum in receiver.
- Independent 256-byte FIFOs (32 bit * 64 deep) per Serial ATA channel for host read and write.
- Hot-plug capability



System Requirements:

- Computer with one available PCI 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.

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

Parity (RAID 5) Adds fault tolerant to disk striping by including parity information with the data.

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 #ADST114R5.
- B. Unzip the file on your drive. Folder name is Sil3114 SATA RAID 5 Manager.
- C. Inside this folder, extract the contents of the zip for the Operating System you wish to install the SATARAID 5 Utility on, then run the executable file to install the utility.

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.

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