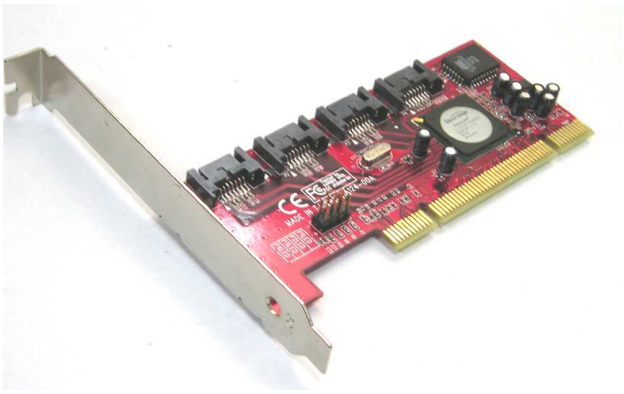
LyCOM Technology Inc.

ST-124 ▪ Raid5 SATA II – 3Gbps 4Ports Low Profile PCI Host



Native SATA II - 300 4Ports with Port Multiplier, NCQ, Raid5, Raid10, Raid0 and Raid1!

RAID 5 (Distributed Parity RAID), JBOD (Just Bunch of Disks), RAID 0 (Striping), RAID 1 (Mirroring) and RAID 0+1 (mirrored-stripping) improve the data performance and provide the data redundancy and rebuilding.

FEATURES

- ***Provides 2 Brackets to Support Low profile PCI and Regular size PCI in one card***
- ***48 bits LBA can Break Capacity-Limit to Support HDD larger than 137GB***

1. PCI

- Compliant with PCI Specification, revision 2.3
- Supports 66 MHz PCI with 32-bit data
- Internal application interface multiplexed to 4 ports
- All registers appear in unified memory space
- Full-chip command completion status accessible with single PCI burst access
- I/O port access to register space
- ***Low Profile PCI form factor***

2. High Speed Serial ATA

- Fully compliant with Serial ATA 1.0a and Serial ATA II Extensions to Serial ATA 1.0a Specifications revision 1.1
- Hot-plug capability
- Supports Serial ATA Generation 2 transfer rate of 3.0 Gb/s
- Supports SATA II First-party DMA commands for **Native Command Queuing (NCQ)**
- Supports **Serial ATA II Port Multiplier** 1.0 Specifications revision 1.1
- Plesiochronous, Single PLL architecture, 1 PLL for 4 ports
- Supports four independent Serial ATA channels

- Independent Link, Transport, data FIFO, command fetch, scatter/gather, and command execution
- 31 Commands and Scatter/Gather Tables per Port
- Supports bootable drive
- Four Pin header on board for LED connection
- 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.
- Provides RAID 0 (Stripping) to greatly increase the performance of data transfer by simultaneously writing data to multiple drives
- Provides RAID 1 (Mirroring) to protect the data from a disk failure by writing identical data on 2 drives
- RAID 0+1 (Mirrored-Stripping) combine both Striping and Mirroring technologies to provide both the performance enhancements that come from Striping and the data availability and integrity that comes from Mirroring
- Completely with drivers for Windows 2000 ,XP and 2003 Server