



PCI-X 2 int. + 2 ext. e-SATA Card

Model No.: SAT3124-220

Instructions:

Sil3124 is a single-chip PCI or PCI-X to 4-port Serial ATA (SATA) host controller that takes SATA performance and features to enterprise levels. The Sil 3124 comes in 2 versions: (1) the Sil3124-1 operates at 1st Generation SATA speeds of 1.5Gbps while (2) the Sil 3124-2 integrates Serial ATA II PHY technology capable of running SATA 2nd Generation speeds of 3Gbps.

FEATURES/ Spec.

- Serial ATA (SATA) – 3.0 Gbps (300MB/s) and 1.5 Gbps (150MB/s)
- Compliant with SATA 1.0, and ATA, SATA II Extensions to SATA 1.0:
 - Port Multiplier with FIS-based switching
 - Native Command Queuing with non-zero offsets
- Four independent DMA channels with 2KB FIFO per channel
- Independent command fetch, scatter/gather, and command execution
- Multimaster I2C interface
- Supports up to 4MB external FLASH
- Supports ATAPI devices: CD-ROM, DVD-ROM, etc.
- Supports hot-plug of SATA devices
- One activity LED per channel
- Output swing control for backplane and extended cable length applications
- Supports spread spectrum clocking to reduce EMI
- JTAG Boundary Scan compliant with IEEE std 1149.1



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- Serial ATA (SATA) – 1.5 Gbps (150MB/s)
- Compliant with SATA 1.0 specification
- Integrated SATA Transport, Link logic, and PHY layer
- 48-bit sector addressing
- Four independent DMA channels with 256B FIFO per channel
- Virtual DMA in PCI with serial link in legacy PIO mode
- Supports command buffering for ATA TF shadow registers
- Supports up to 4MB external FLASH
- Supports ATAPI devices: CD-ROM, DVD-ROM, etc.
- Hot-Plug capable
- Supports SATA active signal for 4 separate LEDs
- Selectable drive strength on Tx for backplane applications
- Supports spread spectrum clocking to reduce EMI
- Single, digital PLL architecture with 1 PLL for all 4 channels