4 Port PCI SATA RAID Controller Adapter Card

StarTech ID: PCISATA4R1

The PCISATA4R1 4 Port PCI SATA RAID Controller lets you add four internal SATA 1.0 (1.5 Gbps) ports to your PC through a single PCI expansion slot, while offering support for several RAID modes or a simple JBOD (Just a Bunch of Disks) configuration.

The PCI SATA card provides increased performance and capacity with RAID 0 (Striping), or a redundant copy of your hard drive with RAID 1 (Mirroring). Configuring in RAID 10 (a.k.a. RAID 0+1) lets you leverage both by creating a mirrored copy of your striped disk set. Plus, the SATA RAID card supports RAID 1+S (Mirror + Spare), which uses a third installed drive to automatically replace a failed drive and rebuild the mirrored set – even if it is the boot drive that failed.

For the ability to fit most standard computer cases, the card ships with a standard profile bracket installed and includes a low profile bracket for adapting to slimline or small form factor systems.

Note: While the PCISATA4R1 card supports any size hard drive in JBOD mode, the max supported drive size when in RAID mode is 2 TB (per port).

Backed by a StarTech.com lifetime warranty and free lifetime technical support.

Applications

- Expand an older PCI-based PC or server system with 4 additional SATA ports
- Add additional SATA ports to a low profile/small form factor (SFF) computer system
- Perfect for multi-drive internal RAID storage solutions

Features

- 4 internal SATA ports
- Support for JBOD, RAID 0 (striping), RAID 1 (mirror), RAID 0+1 (stripe + mirror) and RAID 1+Spare
- Large capacity drive support with 48-bit Logical Block Addressing (LBA)
- Hot-Spare and Hot-Plugging support
- Supports first-party DMA commands for Native Command Queuing
- Fully compliant with the Serial ATA 1.0a specification, with transfer rates up to 1.5Gbps
- Includes an optional low profile/half-height installation bracket

Technical Specifications

Warranty	Lifetime
Bus Type	PCI / PCI-X (5 / 3.3V)
Card Type	Standard Profile (LP bracket incl.)
Chipset ID	Silicon Image - SiI3114R
Interface	SATA
Ports	4
FIFO	256 Bytes per channel
LBA support	48-bit
Maximum Data Transfer Rate	1.5Gbps
Port Multiplier	No
RAID	Yes
Supported RAID Modes	CLONE (RAID 1 + Spare)
Supported RAID Modes	JBOD - (Just a Bunch of Disks)
Supported RAID Modes	RAID 0 (Striped Disks)
Supported RAID Modes	RAID 1 (Mirrored Disks)
Supported RAID Modes	RAID 10 (1+0; Striped set of Mirrored Subset)
Type and Rate	SATA I (1.5 Gbps)
Connector Type(s)	1 - PCI / PCI-X (Universal 3.3 & 5V; 32-bit) Male
Internal Ports	4 - SATA (7 pin; Data) Plug
OS Compatibility	Windows® 2000, XP, Vista, 7, 8, 8.1, 10 Windows Server® 2003, 2008 R2, 2012, 2012 R2 Linux 3.5 to 4.4.x *LTS Versions only*
Note	While the PCISATA4R1 card supports any size hard drive in JBOD mode, the max supported drive size when in RAID mode is 2 TB (per port)
Humidity	15% ~ 90% RH
Operating Temperature	5°C to 50°C (41°F to 122°F)
Storage Temperature	-25°C to 70°C (-14°F to 158°F)

Product Height	0.9 in [22 mm]
Product Length	4.7 in [120 mm]
Product Weight	1.6 oz [46 g]
Product Width	1.8 in [45 mm]
Shipping (Package) Weight	0.4 lb [0.2 kg]
Included in Package	1 - PCI SATA card
Included in Package	1 - Low Profile Bracket
Included in Package	1 - Installation CD
Included in Package	1 - Instruction Manual

Certifications, Reports and Compatibility