4 Port PCI SATA RAID Controller Adapter Card

Product 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.

Certifications, Reports and Compatibility

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

Hardware

	Warranty	Lifetime
	Ports	4
	Interface	SATA
	Bus Type	PCI / PCI-X (5 / 3.3V)
	Card Type	Standard Profile (LP bracket incl.)
	Chipset ID	Silicon Image - SiI3114R

Performance

	Maximum Data Transfer Rate	1.5Gbps
	FIFO	256 Bytes per channel
	Type and Rate	SATA 1.5 Gbit/s (SATA I)
	Port Multiplier	No
	LBA support	48-bit

Hardware Raid Supported	Yes	
Supported RAID Modes	RAID 10 (1+0, Striped set of Mirrored Subset)	
	CLONE (RAID 1 + Spare)	
	JBOD - (Just a Bunch of Disks)	
	RAID 1 (Mirrored Disks)	
	RAID 0 (Striped Disks)	

Connector(s)

Connector Type(s)	1 - PCI / PCI-X (Universal 3.3 & 5V, 32-bit)
Internal Ports	4 - SATA (7 pin, Data)

Software

OS Compatibility	Windows 2000, XP, Vista, 7, 8, 8.1, 10, 11
	Windows Server 2003, 2008 R2, 2012, 2012 R2
	Linux 3.5 to 4.4.x LTS Versions only

Special Notes / Requirements

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)

Environmental

Operating Temperature	5C to 50C (41F to 122F)
Storage Temperature	-25C to 70C (-14F to 158F)
Humidity	15% ~ 90% RH

Physical Characteristics

Product Length	4.7 in [12 cm]
Product Width	1.8 in [4.5 cm]
Product Height	0.9 in [2.2 cm]
Weight of Product	1.6 oz [46 g]

Packaging Information

Package Quantity	1	
Package Length	8.5 in [21.7 cm]	
Package Width	1.9 in [48 mm]	
Package Height	6.3 in [16 cm]	
Shipping (Package) Weight	0.4 lb [0.2 kg]	

What's in the Box

Included in Package	1 - PCI SATA card	
	1 - Low Profile Bracket	
	1 - Installation CD	
	1 - Instruction Manual	

Warranty Information

Warranty	Lifetime	

*Product appearance and specifications are subject to change without notice.