

## 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

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

## Features

- 4 internal SATA ports
- 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
- Support for JBOD, RAID 0 (striping), RAID 1 (mirror), RAID 0+1 (stripe + mirror) and RAID 1+Spare

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## 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

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## 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)

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**Connector(s)**

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

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**Software**

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 <i>LTS Versions only</i>
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**Special Notes / Requirements**

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**Environmental**

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

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**Physical Characteristics**

Product Length	4.7 in [12 cm]
Product Width	1.8 in [45 mm]
Product Height	0.9 in [22 mm]
Weight of Product	1.6 oz [46 g]

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**Packaging Information**

Package Length	8.5 in [21.7 cm]
Package Width	1.9 in [48 mm]
Package Height	6.3 in [16 cm]
Shipping (Package)	7.1 oz [200 g]



Weight

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**What's in the  
Box**

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

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

