4 Port PCI Express SATA III 6Gbps RAID Controller Card with Heatsink

StarTech ID: PEXSAT34RH

The PEXSAT34RH 4-Port PCI Express SATA III Controller Card adds 4 AHCI SATA III ports to a computer through a PCIe slot (x2), delivering multiple internal 6Gbps connections to high-performance hard drives and Solid State Drives (SSDs), all from a single PCIe expansion slot.

The PCIe SATA controller card features Port Multiplier (PM) support on each port, which enables multiple SATA drives to be connected through one of the ports over a single cable, for a total of 7 simultaneous drive connections – (Connect up to 4 drives through PM on one port, and a single drive to each of the remaining 3 ports).

Supporting RAID 0, RAID 1 and 1+0 configurations, this versatile PCI Express SATA RAID card includes an onboard heatsink to dissipate heat build-up, to help maintain peak operating performance even at full capacity.

This PCIe SATA 6gbps card is backed by a 2-year StarTech.com warranty and free lifetime technical support.

Applications

- Upgrade an older PCIe-based system to SATA 6Gbps capability, to better utilize faster SATA drives
- Add more internal SATA ports to a computer system, to connect additional storage drives and/or optical drives
- Provide optimized off-site back-ups/vaulting, through built-in RAID 1 capability
- Perfect for multi-drive internal RAID storage solutions

Features

- 4 AHCI SATA III (6Gbps) ports through PCI Express x2
- Fully compliant with SATA 3.0 specifications and backward compatible with SATA I/II (1.5/3.0Gbps) drives
- Supports HDDs/SSDs/Optical/Blu-Ray drives
- Compliant with PCI Express 2.0 standards
- Natively supported single chipset design
- Port Multiplier FIS-based and Command-based switching supported
- Supports Native Command Queuing (NCQ) and ATA/ATAPI commands
- Supports hardware RAID 0, 1, and 1+0 modes configured through BIOS
- Onboard heatsink keeps the card running cool
- Includes Low Profile/Half-Height installation bracket
- LED headers for HDD activity LED indicators

Technical Specifications

Warranty	2 Years
Bus Type	PCI Express
Card Type	Standard Profile (LP bracket incl.)
Chipset ID	Marvell 88SE9230
Industry Standards	PCI Express 2.0
Industry Standards	Serial ATA 3.0 specification
Interface	SATA
Port Style	Integrated on Card
Ports	4
Connector Type(s)	1 - PCI Express x2 Male
Internal Ports	4 - SATA (7 pin; Data) Plug
Supported RAID Modes	JBOD - (Just a Bunch of Disks)
Supported RAID Modes	RAID 1 (Mirrored Disks)
Supported RAID Modes	RAID 0 (Striped Disks)
Supported RAID Modes	RAID 10 (1+0; Striped set of Mirrored Subset)
LBA support	48-bit
Max Drive Capacity	Currently tested up to 4TB per drive
Port Multiplier	Yes
RAID	Yes
Type and Rate	SATA III (6 Gbps)
OS Compatibility	Windows XP (32/64-bit)/ Vista (32/64-bit)/ 7 (32/64-bit)/ 8 (32/64-bit) Mac OS 10.6 /10.7 /10.8 Linux
Product Height	0.8 in [20 mm]
Product Length	2.8 in [70 mm]
Product	1.8 oz [50 g]

Weight	
Product Width	4.7 in [120 mm]
Humidity	20% ~ 80% RH
Operating Temperature	5°C ~ 50°C (41°F ~ 122°F)
Storage Temperature	-25°C ~ 70°C (-13°F ~ 158°F)
System and Cable Requirements	Available PCI Express x2 slot (backward compatible with x4, x8, and x16 slots)
Note	The maximum throughput of this card is limited by the bus interface. If used with PCI Express Gen 1.0 enabled computers, the max throughput is 2.5 Gbps per lane. If used with PCI Express Gen 2.0 enabled computers, the max throughput is 5 Gbps per lane. Only one port can use the Port Multiplier feature at a time. Supports up to 4 drives connected via Port Multiplier, 7 drives total. Port Multiplier not supported in Mac OS.
Package Quantity	1
Shipping (Package) Weight	5.1 oz [145 g]
Included in Package	1 - PCIe SATA Controller Card
Included in Package	1 - Low Profile Bracket
Included in Package	1 - Driver CD
Included in Package	1 - Instruction Manual

Certifications, Reports and Compatibility

CE

FC

RoHS Compliant Available

works with Windows 7

works with Windows Vista

works with Windows 8