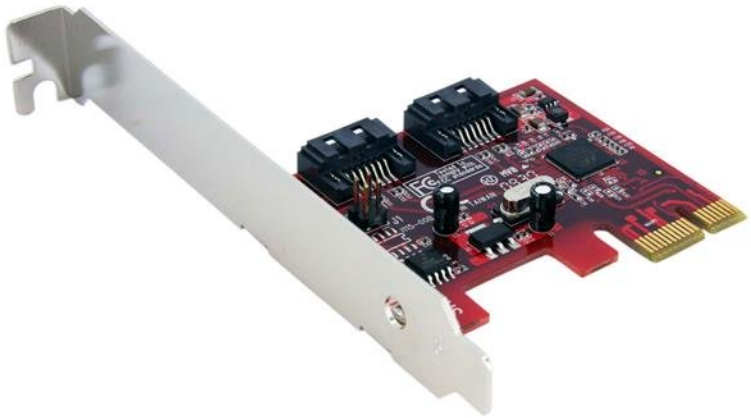
StarTech.com
Hard-to-find made easy®

Data Sheet

2 Port SATA 6 Gbps PCI Express SATA Controller Card

Product ID: PEXSAT32



The PEXSAT32 2-Port PCI Express SATA 6 Gbps (SATA 3.0) Controller Card offers simple connectivity between a host computer and SATA 3.0 devices - a cost-effective solution for connecting high-speed storage, such as High RPM Hard Drives and Solid State Drives (SSD), which in turn allows for easier data backups and archiving.

With full support for SATA 3.0 hard drives and data transfer speeds of up to 6 Gbps, the adapter card features a native PCI Express single chipset that provides enhanced compatibility, reliability and performance for external SATA 600 MB/s storage needs.

The controller card is backward compatible with SATA 2.0 devices, providing the versatility to use older storage, and features support for RAID 0 and 1 modes as well as port multiplier capability with command-based and FIS-based switching for connecting multiple external hard drives to a host PC through a single SATA connection.

A dual profile solution, the SATA 3.0 controller card includes a low profile/half-height bracket for installation in slimline or small form factor computer cases.

Certifications, Reports and Compatibility

RoHS & REACH DOWNLOAD DECLARATION

Applications

- Add two internal SATA 6Gbps port for connecting SATA rev 3.0 (6Gbps) Hard Drives
- High performance internal SATA storage solution
- Multimedia streaming or video editing
- Perfect for multi-drive internal raid storage solutions

Features

- Supports SATA Rev 3.0 transfer speeds up to 6.0Gbps and backwards compatible with SATA I/II at 1.5/3.0Gbps
- Port Multiplier FIS-based and Command-based switching supported
- Supports RAID 0 and 1 modes
- Compliant with PCI Express 2.0 standards
- Uses existing SATA I/II connectors and cabling
- Supports Native Command Queuing (NCQ) and ATA/ ATAPI commands
- Ships with a full profile bracket install, low profile included
- LED headers for HDD activity LED indicators

	Warranty	Lifetime
Hardware	Bus Type	PCI Express
	Card Type	Standard Profile (LP bracket incl.)
	Chipset ID	Marvell - 88SE9128
	Interface	SATA
	Ports	2
Performance	ATAPI Support	Yes
	Bootable	Yes
	Maximum Data Transfer Rate	6 Gbps
	Number of Drives Supported Through Port Multiplier	1 to 5
	Number of Ports That Support Port Multiplier	2 (can only use 1 PM at a time)
	Port Multiplier	Yes
	RAID	Yes
	Supported RAID Modes	RAID 0 (Striped Disks) RAID 1 (Mirrored Disks) JBOD - (Just a Bunch of Disks)
	Type and Rate	SATA III (6 Gbps)
Connector(s)	Connector Type(s)	1 - PCI Express x1 Male
	Internal Ports	2 - SATA (7 pin, Data) Plug
Software	Microsoft WHQL Certified	Yes
	OS Compatibility	Windows® XP, Vista, 7, 8, 8.1, 10 Windows Server® 2003, 2008 R2, 2012, 2012 R2, 2016, 2019 Mac OS® 10.6 to 10.14 Linux 3.5.x to 4.11.x *LTS Versions only* Note: Connected drives cannot be used as System / Primary drive in Windows Server 2012, 2012 R2, 2016
Special Notes / Requirements	**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. If used with PCI Express Gen 2.0 enabled computers, the max throughput is 5 Gbps. Only one port can use the Port Multiplier feature at a time. Port Multiplier not supported in Mac OS®☐

		Alarm function is not supported in MSU software. The Marvell Storage Utility application requires macOS 10.9 to 10.14.
Environmental	Humidity	15~90% RH
	Operating Temperature	5°C to 50°C (41°F to 122°F)
	Storage Temperature	-25°C to 70°C (-13°F to 158°F)
Physical Characteristics	Product Height	0.8 in [2.1 cm]
	Product Length	2.7 in [67.7 mm]
	Product Width	2.5 in [64.5 mm]
	Weight of Product	1.2 oz [33 g]
Packaging Information	Package Height	1.3 in [32 mm]
	Package Length	6.9 in [17.5 cm]
	Package Width	5.7 in [14.5 cm]
	Shipping (Package) Weight	4.4 oz [126 g]
What's in the Box	Included in Package	1 - SATA 6Gbps PCI Express Card 1 - Low Profile Bracket 1 - Driver CD 1 - Instruction Manual

Product appearance and specifications are subject to change without notice.