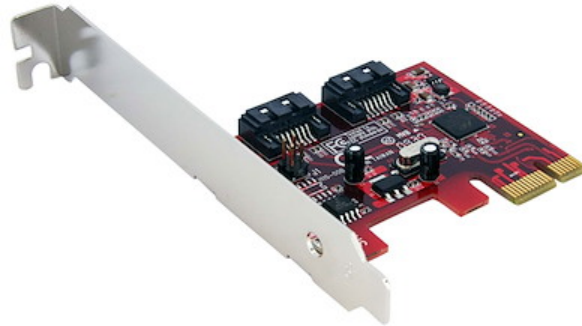2 Port SATA 6 Gbps PCI Express SATA Controller Card

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

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

Hardware

	Warranty	Lifetime
	Ports	2
	Interface	SATA
	Bus Type	PCI Express
	Card Type	Standard Profile (LP bracket incl.)
	Chipset ID	Marvell - 88SE9128

Performance

	Maximum Data Transfer Rate	6 Gbps
	Type and Rate	SATA 6 Gbit/s (SATA III)
	Port Multiplier	Yes
	Number of Ports That Support Port Multiplier	2 (can only use 1 PM at a time)
	Number of Drives Supported Through Port Multiplier	1 to 5
	Bootable	Yes
	Hardware Raid Supported	Yes

	Supported RAID Modes	RAID 0 (Striped Disks)
		RAID 1 (Mirrored Disks)
		JBOD - (Just a Bunch of Disks)
	ATAPI Support	Yes

Connector(s)

	Connector Type(s)	PCI Express x1
	Internal Ports	SATA (7 pin, Data)

Software

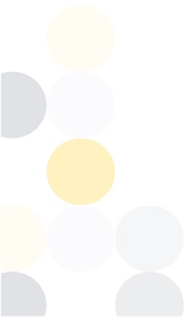|		
	OS Compatibility	Windows XP, Vista, 7, 8, 8.1, 10, 11
		Windows Server 2003, 2008 R2, 2012, 2012 R2, 2016, 2019
		Mac OS 10.6 to 10.14
		Linux 3.5.x to 4.11.x <i>LTS Versions only</i>
		Note: Connected drives cannot be used as System / Primary drive in Windows Server 2012, 2012 R2, 2016, 2019
	Microsoft WHQL Certified	Yes

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

	Operating Temperature	5C to 50C (41F to 122F)
	Storage Temperature	-25C to 70C (-13F to 158F)
	Humidity	15~90% RH

Physical Characteristics

Material	Steel	
Product Length	2.7 in [67.6 mm]	
Product Width	2.5 in [64.5 mm]	
Product Height	0.8 in [21.3 mm]	
Weight of Product	1.2 oz [33.0 g]	

Packaging Information

Package Length	6.9 in [17.5 cm]	
Package Width	5.7 in [14.5 cm]	
Package Height	1.3 in [32.0 mm]	
Shipping (Package) Weight	4.4 oz [126.0 g]	

What's in the Box

Included in Package	SATA 6Gbps PCI Express Card	
	Low Profile Bracket	
	Driver CD	
	Instruction Manual	

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