

1x eSATA + 1x SATA 6 Gbps PCI Express SATA Controller Card Adapter

Product ID: PEXSAT31E1



The PEXSAT31E1 2-Port PCI Express SATA/eSATA 6 Gbps (SATA 3.0) Controller Card adds one internal SATA 3.0 (6 Gbps) and one external eSATA 3.0 (6 Gbps) port, through a single PCIe slot.

Providing simple connectivity between a host computer and SATA 3.0 internal and external devices, the PCIe SATA/eSATA 3.0 adapter/controller card offers a cost-effective solution for connecting high-speed storage, such as High RPM Hard Drives , Solid State Drives (SSD), and external storage arrays, 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 external SATA connection.

Suitable for installation in slimline or small form factor computer cases, the PEXSAT31E1 offers a dual profile solution, including a low profile/half-height bracket for easy installation.

Certifications, Reports and Compatibility



Applications

- Add one internal SATA and one external eSATA 6Gbps port for connecting SATA rev 3.0 (6Gbps) Hard Drives
- Optimized for offsite backups, this RAID controller can be configured in RAID 1 (Mirrored) so that all information on the internal drive will be immediately copied up to an externally connected eSATA drive
- High performance internal and external SATA storage solutions
- Perfect for multi-drive internal raid storage solutions
- Multimedia streaming or video editing

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/eSATA cabling
- Supports Native Command Queuing (NCQ) and ATA/ ATAPI commands
- Ships with a full profile bracket installed, low profile included
- LED headers for HDD activity LED indicators

Hardware	Warranty	Lifetime
	Bus Type	PCI Express
	Card Type	Standard Profile (LP bracket incl.)
	Chipset ID	Marvell - 88SE9128
	Interface	eSATA & 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	JBOD - (Just a Bunch of Disks) RAID 0 (Striped Disks) RAID 1 (Mirrored Disks)
	Type and Rate	SATA III (6 Gbps)
Connector(s)	Connector Type(s)	1 - PCI Express x1 Male
	External Ports	1 - eSATA (7 pin, Data) Plug
	Internal Ports	1 - SATA (7 pin, Data) Plug
Software	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 <i>LTS Versions only</i> 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.

		Alarm function is not supported in MSU software.
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	Color	Red
	Product Height	0.7 in [1.8 cm]
	Product Length	2.6 in [67 mm]
	Product Width	2.1 in [53 mm]
	Weight of Product	1.1 oz [30 g]
Packaging Information	Package Height	1.3 in [33 mm]
	Package Length	5.7 in [14.4 cm]
	Package Width	6.9 in [17.4 cm]
	Shipping (Package) Weight	4.3 oz [123 g]
What's in the Box	Included in Package	1 - PCI Express SATA Controller Card
		1 - Low Profile Bracket
		1 - Driver CD
		1 - Instruction Manual

Product appearance and specifications are subject to change without notice.