

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

Features

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

Hardware	Warranty	Lifetime
	Ports	2
	Interface	SATA
	Interface	eSATA & SATA
	Bus Type	PCI Express
	Card Type	Standard Profile (LP bracket incl.)
	Chipset ID	Marvell - 88SE9128
Performance	Maximum Data Transfer Rate	6 Gbps SATA 6 Gbit/s (SATA III)
	Type and Rate	Yes
	Port Multiplier	2 (can only use 1 PM at a time)
	Number of Ports That Support Port Multiplier	1 to 5
	Number of Drives Supported Through Port Multiplier	Yes Yes
	Bootable	JBOD - (Just a Bunch of Disks)
	Hardware Raid Supported	RAID 0 (Striped Disks) RAID 1 (Mirrored Disks)
	Supported RAID Modes	Yes
	Supported RAID Modes	

Supported RAID Modes

ATAPI Support

Connector(s)	Connector Type(s)	PCI Express x1
	Internal Ports	SATA (7 pin, Data)
	External Ports	eSATA (7 pin, Data)
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 10.15 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 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.<p>Only one port can use the Port Multiplier feature at a time.</p> Alarm function is not supported in MSU software.
	Environmental	Operating Temperature 5C to 50C (41F to 122F) Storage Temperature -25C to 70C (-13F to 158F) Humidity 15~90% RH
	Physical Characteristics	Color Red Product Length 2.6 in [67 mm] Product Width 2.1 in [53 mm] Product Height 0.7 in [18 mm] Weight of Product 1.1 oz [30 g]
Packaging Information	Package Length 5.7 in [1.4 cm] Package Width 6.9 in [1.7 cm] Package Height 1.3 in [33 mm] Shipping (Package) Weight 4.3 oz [123 g]	
What's in the	Included in Package	PCI Express SATA Controller Card

Box

Included in Package	Driver CD
Included in Package	Instruction Manual
Included in Package	Low Profile Bracket

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

