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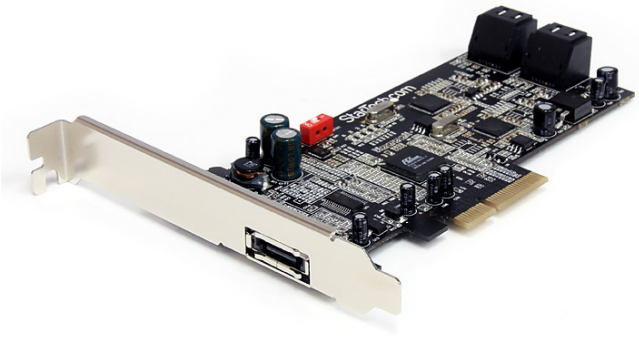
4 Port SATA 6Gbps PCIe Controller w/Shared eSATA

PEXSAT34



*actual product may vary from photos

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Manual Revision: 12/06/2011

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Introduction

The PEXSAT34 4-port PCI Express (x4) SATA 6Gbps Controller Card adds 4 internal SATA ports, along with a shared eSATA port to a desktop computer. Providing both an internal and external SATA 6Gbps connectivity solution from a single card. Compliant with SATA revision 3.0, this SATA controller card provides up to 6Gbps of data bandwidth to utilize the speeds of high performance hard drives and Solid State Drives (SSD). Along with Port Multiplier (PM) support on each port, allowing for multiple SATA drives to be connected over a single cable.

Packaging Contents

- 1 x PCI Express SATA Card
- 1 x Low Profile Bracket
- 1 x Driver CD
- 1 x Instruction Manual

System Requirements

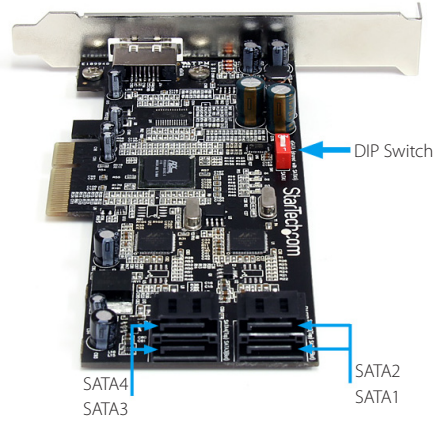
- PCI Express enabled computer with available x4 PCI Express slot
- Microsoft® Windows® XP/ Server 2003/ Vista/ Server 2008 R2/ 7 (32/64-bit), or Apple® Mac OS® 10.6/ 10.7, or Linux®

Installation

WARNING! PCI Express cards, like all computer equipment, can be severely damaged by static electricity. Be sure that you are properly grounded before opening your computer case or touching your PCI Express card. StarTech.com recommends that you wear an anti-static strap when installing any computer component. If an anti-static strap is unavailable, discharge yourself of any static electricity build-up by touching a large grounded metal surface (such as the computer case) for several seconds. Also be careful to handle the PCI Express card by its edges and not the gold connectors.

Shared eSATA Port

The eSATA port on this card is shared with internal SATA port 1 (SATA1). Only one will function at a time and must be selected using the DIP switch on the card. Do not change the DIP switch on the card while the computer is running.



Hardware Installation

1. Turn your computer off and any peripherals connected to the computer (i.e. Printers, external hard drives, etc.). Unplug the power cable from the rear of the power supply on the back of the computer and disconnect all peripheral devices.
2. Remove the cover from the computer case. See documentation for your computer system for details.

3. Locate an open PCI Express x4 slot and remove the metal cover plate on the rear of the computer case (Refer to documentation for your computer system for details.). Note that this card will work in PCI Express slots of additional lanes (i.e. x8 or x16 slots).
4. Gently insert the card into the open PCI Express slot and fasten the bracket to the rear of the case.

NOTE: If installing the card into a small form factor/low profile system, replacing the pre-installed full profile bracket with the included low profile installation bracket may be necessary.

5. Connect SATA cables from the ports on the card to the SATA devices inside the computer.
6. Place the cover back onto the computer case.
7. Insert the power cable into the socket on the power supply and reconnect all other connectors removed in Step 1.

Driver Installation

Windows XP/Server 2003/Vista/Server 2008 R2

1. After installing the card into the computer system, boot up the computer.
2. Once logged into Windows, the Hardware/Driver installation wizard should appear. Insert the Driver Installation CD into the CD/DVD drive when prompted.
3. Windows should automatically start to search the CD for the appropriate drivers. This may take several minutes.
4. Once Windows has located the drivers and installed them, the card should be ready for use.

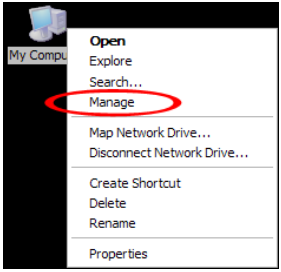
Windows 7

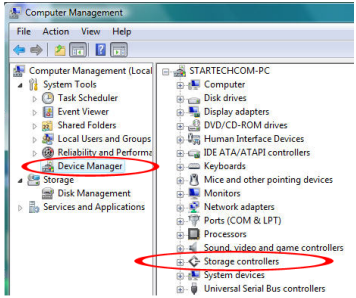
No driver installation is required for Windows 7, as the controller card is natively supported, so the drivers are already installed.

Verifying Installation

Windows XP/Server 2003/Vista/Server 2008 R2/7

From the main desktop, right-click on "My Computer" ("Computer" in Vista or later), then select "Manage". In the new Computer Management window, select Device Manager from the left window panel.





Under the "SCSI and RAID Controllers" category ("Storage Controllers" in Vista or later), should be a "Marvell 91xx" device. Right-click on the device and select "Properties" to make sure it is installed and working correctly.

For Windows 7, if using the native drivers, the card will instead be listed under the "IDE ATA/ATAPI Controller" category as a "Standard AHCI" device.

Specifications

Host Interface	PCI Express 2.0 SATA revision 3.0
Form Factor	Full/Low Profile
Chipset ID	Marvell 88SE9128 PLX PEX8604
External Connectors	1 x eSATA receptacle
Internal Connectors	4 x 7-pin SATA receptacle
Maximum Data Transfer Rate	SATA: 6 Gbps
RAID Support	No
Port Multiplier	Yes*
Operating Temperature	0°C ~ 50°C (32°F ~ 122°F)
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Humidity	5% ~ 85% RH
Dimensions	121.0mm x 130.0mm x 19.0mm
Weight	100g
Compatible Operating Systems	Windows XP/ Server 2003/ Vista/ Server 2008 R2/ 7 (32/64-bit), Mac OS 10.6/ 10.7, Linux

*Port Multiplier not supported Mac OS

Technical Support

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Warranty Information

This product is backed by a two year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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