

6Gbps SATA 2Ports Low Profile PCIe 2.0 Host Adapter

1. Introduction

2Ports 6Gbps SATA III PCI Express 2.0 host board to support NCQ, Port Multiplier!

1.1. Features

- o 6Gbps SATA III 2 Ports
- o Supports 5Gbps PCI Express 2.0
- o Fully compliant with Serial ATA specifications 2.6
- o Supports SATA III transfer rate of 6.0Gbps, 3.0Gbps 1.5Gbps
- o Supports ATA and ATAPI commands
- o Supports Native Command Queuing (NCQ)
- o Supports Port Multipliers FIS-based switching or Command-based switching
- o Support AES-256
- o 48 bits LBA can Break Capacity-Limit to Support HDD larger than 137GB
- o Low Profile PCI Form Factor
- o Includes an additional Low Profile Bracket
- o Hot-plug capability
- o Two Pin headers on board for LED connection
- o Completely with drivers for 64bit / 32bit Windows Vista, XP and Server 2003
- o 64bit / 32bit Windows 7 Built-in Driver support
- o Fully RoHS compliant

1.2. Package Contents

- Low Profile PCIe Host Adapter
- Users Manual
- Driver CD

2. Software Installation

2.1. Windows Vista, XP or Server 2003 Fresh OS installation

1. Power off the system. Insert SATA Card into an available PCIe slot. Connect serial ATA cable(s) between the SATA port and serial ATA device(s). Power up the system.
2. Put your Windows Vista/XP or Windows Server 2003 CD into the CD-ROM/DVD drive, or the boot diskette #1 in the floppy drive if your system cannot boot from the CD.
3. Press F6 for third party SCSI or driver installation at the beginning of text mode installation. Press '**S**' when setup asks if you want to specify an additional device, and insert the driver CD. Press '**Enter**' and select '**Marvell AHCI SATA Controller xxbit Driver**'.
4. Press '**Enter**' again when prompted to continue on with text mode setup.
5. Follow the setup instructions to select your choice for partition and file system.
6. After setup examines your disks, it will copy files from the CD to the hard drive selected above and restart the system. After restart the setup process will resume to finish the installation.
7. Once the operating system installation has completed you can follow the instructions in section 2.3 to verify controller was installed correctly.

2.2. Adding the HBA to an existing Windows Vista / XP /Server 2003 installation

1. Power off the system. Insert SATA Card into an available PCI slot. Power up the system.
2. During OS boot up, Windows will display the '**Found New Hardware Wizard**'. '**PCI Device**'.
3. Select "**Install from a list or specific location (Advanced)**", and click "**Next**", and make sure the Driver CD is in your CD-ROM/DVD
4. Select "**Search for the best driver in these locations**", and check "**Include this location in the search:**" uncheck the other boxes.
5. Type in E:\ (If your CD-ROM/DVD is E:\) then click "**Browse**".
6. Points specify a location, example "**E:\ 6G SATA 2Port_PCIe \i386**" for **32bit OS** or "**E:\PCIe2_2Port_SATAIII\amd64**" for **64bit OS**, and click "**OPEN**" then "**OK**"
7. When the wizard indicates that it found a driver for the device click '**Next**'
8. If the '**Hardware Installation**' dialog appears, click '**Continue Anyway**'
9. The wizard will now copy the required files to the system and start the Driver. After starting the driver the wizard will display a completion dialog, click '**Finish**' to exit the wizard.

2.3.Verifying The installation Windows Vista /XP or Windows Server 2003

1. Right click on 'My Computer' icon, select 'Properties', left click on 'Hardware' tab, and then on 'Device Manager' button.
2. Double click on 'SCSI and RAID Controllers', If there is no yellow '!' or '?' in front of '**Marvell AHCI SATA Controller**', the driver is started correctly.

2.4. Update new driver on Windows Vista / XP or Windows Server 2003

1. Right click on 'My Computer' and select 'Properties'. Under the 'System Properties' section, click on 'Hardware' tab, and then on 'Device Manager' click 'SCSI and RAID Controllers' and right click '**Marvell AHCI SATA Controller**' then select 'Properties' from the context menu.
2. Click 'Driver' , 'Update Driver' and select 'Search for a suitable driver for my device[Recommended]'. Insert the Driver CD in your CD-ROM/DVD drive. Click 'Next' and complete the driver installation.
3. System will go through the enumeration process and install the driver. At the end of the process, click 'Yes' to reboot your system when necessary.
4. See instructions in section 2.3 to verify controller was installed correctly.

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