

8-Port SATA 6G PCIe Card

User Manual

Ver. 1.00

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Contents:

Chapter 1: Introduction	3
1.1 Product Introduction	3
1.2 Features.....	3
1.3 System Requirements	4
1.4 Package Contents.....	4
Chapter 2: Getting Started	5
2.1 Hardware Overview	5
2.2 Hardware Installation	6
2.3 Driver Installation (Windows)	6
2.4 Hardware Verify (Windows).....	7

Chapter 1: Introduction

1.1 Product Introduction

This board is a PCI Express to eight SATA Gen III 6Gb/s channels host controller that brings server-class features to the desktop.

This board enables the use of the industry's newest and fastest hard drives at 6Gb/s while providing backward compatibility to legacy SATA 1.5Gb/s or 3Gb/s drives. It supports connecting up to eight SATA devices via two internal mini SAS (SFF-8087) connectors. Each SATA connection supports throughput up to 6Gbps when installed into PCI-Express 2.0 slot with 4 or more lanes.

1.2 Features

- Eight internal SATA ports via two internal mini SAS connectors (SFF-8087)
- Compliant with PCI-Express Specification v2.1 and backward compatible with PCI-Express 1.x
- Compliant with Serial ATA Specification 3.0

- PCI Express x4 interface, and compatible with PCI Express x8 and x16 slots
- Supports communication speeds of 6.0Gbps, 3.0Gbps and 1.5Gbps
- Hot plug and Hot Swap
- Support ATA and ATAPI commands
- Support Native Command Queue (NCQ)
- Support Port Multiplier
- 8 LEDs for drive activity

1.3 System Requirements

- Windows® XP/Vista/7/8/8.1/10 (32/64 bit); Mac OS X 10.6.8 or later; Linux 2.6.32 and up (Tested up to 3.16 kernel)
- Available 4-Lanes PCI-Express slot gen 2.0 or alter

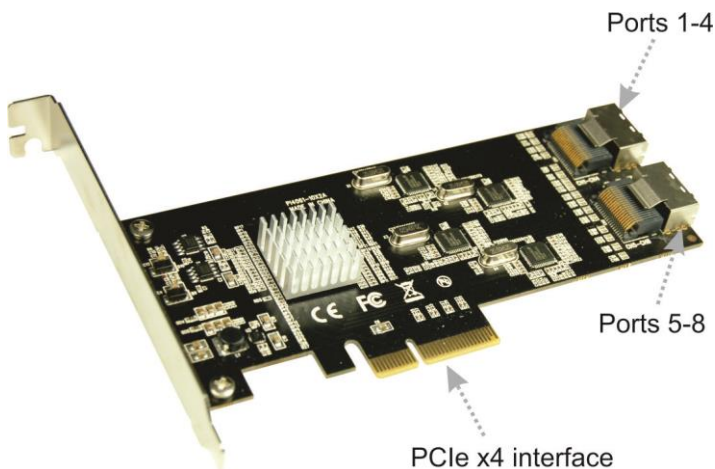
1.4 Package Contents

- 1 x 8-Port SATA 6G PCIe Card
- 1 x Driver CD

- 1 x User Manual

Chapter 2: Getting Started

2.1 Hardware Overview



2.2 Hardware Installation

1. Turn off the power to your computer.
2. Unplug the power cord and remove your computer's cover.
3. Remove the slot bracket from an available PCIe slot.
4. To install the board, carefully align the card's bus connector with the selected PCIe slot (x4, x8 or x16) on the motherboard. Push the board down firmly.
5. Attach your internal devices via internal mini SAS cable.
6. Replace the slot bracket's holding screw to secure the card.
7. Secure the computer cover and reconnect the power cord.

2.3 Driver Installation (Windows)

1. Please insert the CD driver bound with 8-Port SATA 6G PCIe Card into your CD-ROM Drive.
2. At the Windows desktop, click **Start**, then **Run**.
3. Type **D:\PCIe\ASM106x\Setup.exe**, click **OK**. (Change **D:** to match your CD-ROM drive letter)
4. Follow the on-screen instructions to complete the installation.
5. Restart Windows to complete the installation.

2.4 Hardware Verify (Windows)

1. Right click **My Computer** and click **Manage**.
2. Select **Device Manager**.
3. Look for the following:

Windows® XP: Double click **SCSI and RAID Controller:**

-**ASMedia 106X SATA Controller** should be displayed

Windows® Vista/7/8/8.1/10: Double click **IDE ATA/ATAPI
Controllers:**

-**ASMedia 106X SATA Controller** should be displayed