

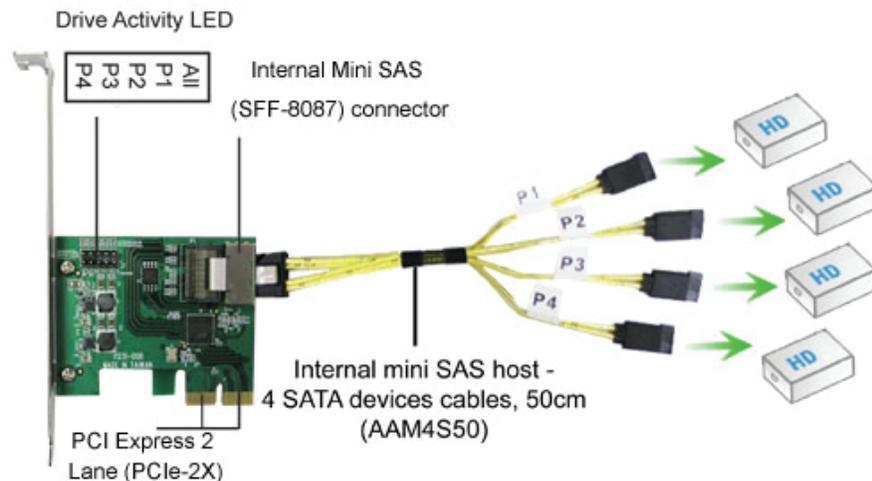
## INTRODUCTION

This mini SAS PCIe controller supports connecting up to four SATA devices via an internal mini SAS (SFF-8087) connector. The controller supports throughput up to 6Gbps when installed into PCI-Express 2.0 slots with 2 or more lanes. The small form factor of this controller allows it to fit into both standard height and low profile slots in many Desktop, small form factor system, rack mount system and various computing equipment.

### Internal mini SAS / 4-SATA PCIe controller

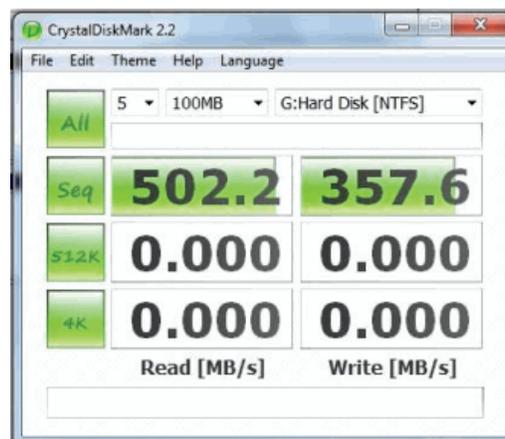


### Connecting to hard drives via internal mini SAS cable



Performance measured at our test lab using 4 SATA III hard drives configured in RAID 0 and the controller installed into a PCIe 2.0 16X slot.

Please note performance varies depending on speed of the hard drive, the system hardware and the type of PCIe slot



### FEATURES

- Four SATA ports via an internal mini SAS connectors (SFF-8087)
- Supports 6 Gbps, 3 Gbps & 1.5 Gbps SAS or SATA hard drive
- Supports SATA I & SATA II & SATA III HDD, SSD, Optical Drive and Blu-Ray Drive
- PCI-Express 2 lanes compatible (also fits into PCI-Express 4/8/16 Lane or the graphic card slot)
- Fits standard height Desktop case, low profile PC, rack mount system and various computing equipment
- Includes low Profile PCI bracket
- Comptaible with the following Addonics Port Multiplier AD5HPMSXA and AD5SAPM
- Support maximum 7 drives when combines with Port Multiplier
- Connected drvies operate as individual drive or can be set to RAID 1, 0, 10, SAFE or a single large drive
- RAID setting via the built-in RAID firmware utility during system boot up
- Hot swap support - drive can be removed and added without system shut down or restart\*
- Simple plug and play
- Supported OS: 64bit / 32bit Windows 8, Win7, Vista, 2008, 2012, Linux and Mac 10.x with built-in AHCI inbox driver support, no additional driver required
- Software driver for Windows XP

\* Hot swapping hard drive has been tested on Windows OS only

### SPECIFICATIONS

- 6Gbps SATA III 4 Ports PCIe Gen2 2Lane Host Adapter
- Four SATA in one internal mini SAS (SFF-8087) connector
- Marvell 88SE9230
- Compliant with 10Gbps x2 PCI Express 2.0
- Supports main board PCI Express 1.0 and 2.0 x2, x4, x8 and x16 host slot
- On board RAID firmware
- Serial ATA Revision 3.0 (6 Gbps) specification compliant.
- Supports SATA III transfer rate of 6.0Gbps, 3.0Gbps, 1.5Gbps
- Supports Native Commands Queuing (NCQ)
- Supports max one SATA FIS-based or Command-based Port Multiplier and max 4 drives connected to PM for individual drive configuration
- Pin headers on board for LED connection
- Dimension (W x L x H): 50 x 70 x 12 mm (~ 1.97 x 2.76 x .47 in.)
- Weight: 85g (~ 1.23 oz) with full height PCI bracket
- Operating temperature and humidity: 0 - 60 degree C, 5 - 90% RH
- Storage Temperature and humidity: -20 - 70 degree C, 0 - 95 % RH non-condensing
- Fully RoHS compliant

SATA data transfer rate is calculated at 10 bits=1 byte

#### System Requirement

- PC/AT or Compatible System
- One free PCI-Express 2, 4, 8 or 16 lanes slot or the PCI-Express graphic card slot
- Pentium or greater
- Minimum 32 MB RAM
- 10 MB minimum free hard disk space
- One of the following operating systems: 64bit / 32bit Windows 8, Win7, Vista, 2008, 2012, Linux and Mac 10.x with built-in AHCI inbox driver support