

**Internal 4-in-3 Non-RAID Enclosure,  
Native SAS / SATA  
w/ 1\*Mini SASX4 Connector**



**User's Manual**

## 1. Product Overview

### Features:

- \* Aluminum housing, anodized surface, benefits for cooling and durability
- \* Small, compact, and light weight
- \* Backplane design for integrating four removable 3.5" SAS/SATA drive trays in three 5.25" Space
- \* Swappable cooling fan for self-contained ventilation
- \* Individual key lock of each HDD tray for physical security
- \* LED indicators for power and activity on each HDD tray
- \* LED indicators for drive fail signal through host pin connection
- \* Environmental monitoring with FAN/TEMP LED indicators and MUTE button

### Descriptions:

It is a four Bay Hot-Swap Serial Attached SCSI / Serial ATAII Enclosure featuring environmental monitoring. It provides a low cost and high performance internal data backup solution; It will bring the convenience of data back up ability by SAS/SATA interface.

### Specifications:

Host Interface	SAS, SATAII
HDD Interface	SAS, SATAI/II
Data Transfer Rate	3.0 Gbps
Hot-Swap	Both on Host and Device
LED Display	White – Power on indicator Blue – Busy (HDD Accessing) indicator Red – Fail indicator ※ Fail HDD detection only works when HBA card can support pin connection for the indicators
Alarm	Mutable buzzer for FAN/TEMP error.
LED Display for Environmental Monitoring	POWER on LED - white FAN normal – green; fail – red (too slow rpm or stop) TEMP normal – green; over 55°C – red ※ We strongly recommend customers to replace a new fan ASAP after the fan failed.

Cooling	One 80 x 80 x 25 mm Swappable Cooling Fan
Dimension	<ul style="list-style-type: none"> <li>- Including Fan: 22.0(D) x 14.6(W) x 12.6(H) cm</li> <li>- Excluding Fan: 19.3(D) x 14.6(W) x 12.6(H) cm</li> </ul>
Material	Anodized Aluminum with plastic front panel & Plastic tray face
Power connector	Two 4pin power connectors for +5V and +12V power input
O.S. support	OS independent
<p><b>Package Content:</b></p> <ul style="list-style-type: none"> <li>- Enclosure x 1</li> <li>- HDD Tray x 4</li> <li>- Manual CD-ROM x1</li> <li>- Hard Disk Drive mounting screw x 16</li> <li>- Key for HDD tray x 2</li> </ul>	

## 2. Quick Installation Guide

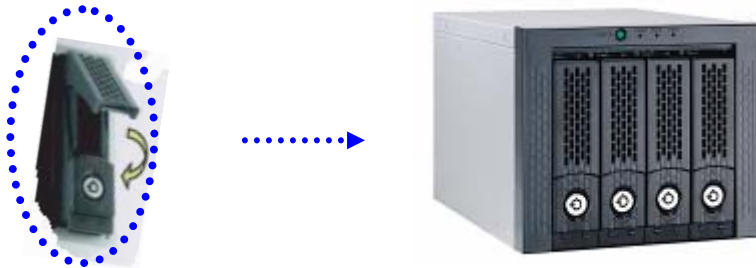
### 1. Press slide lock down



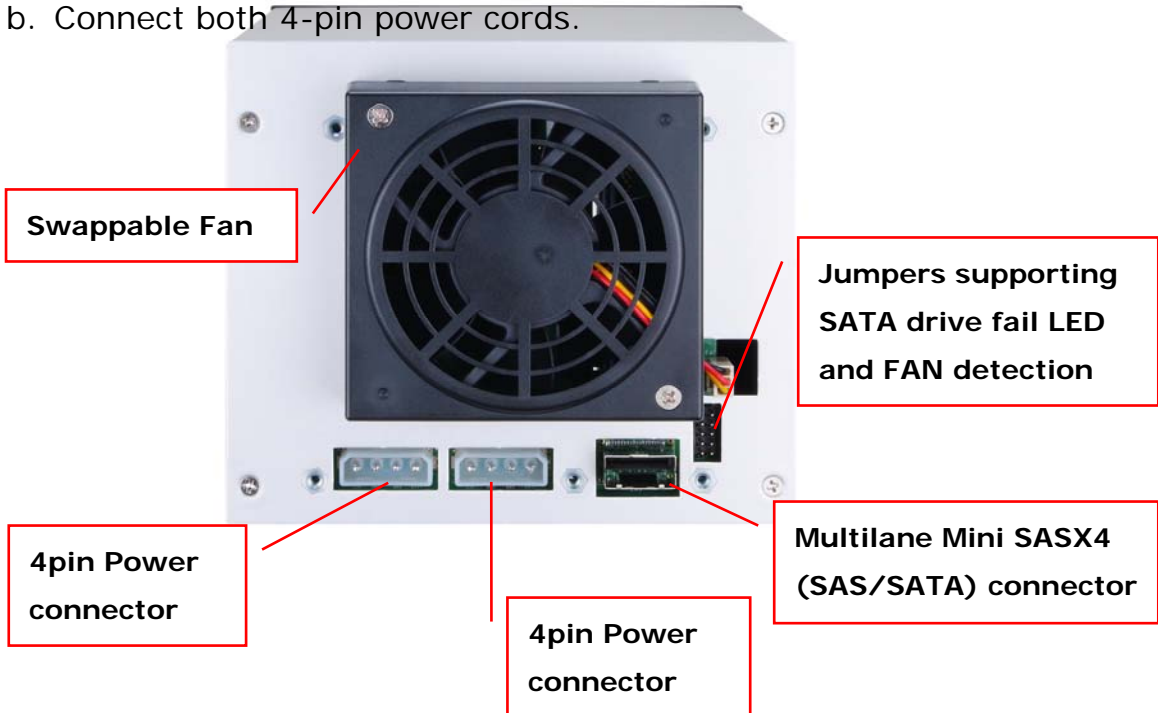
### 2. Attach screws



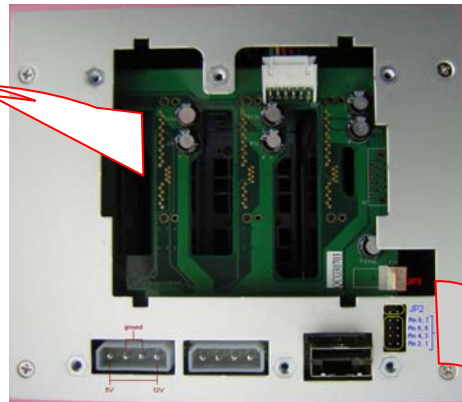
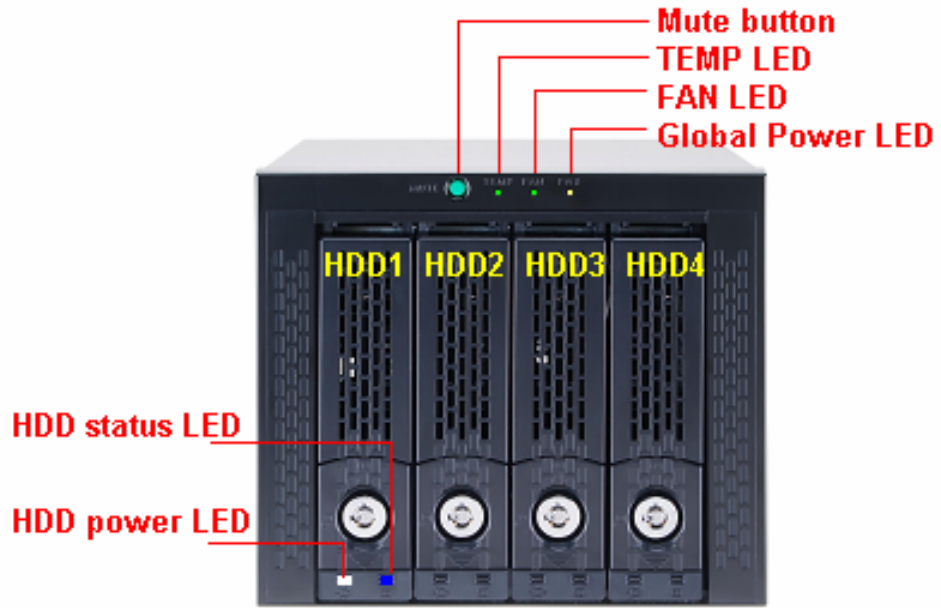
### 3. Press tray handle on Sliding the tray with hard drive into the enclosure



- a. Connect mini SAS cable from Host to DEVICE.
- b. Connect both 4-pin power cords.



### 3. Drive configuration and Pin Assignments



#### Jumpers supporting SATA drive fail LED

JP1:

Pin 1,3,5,7 GND

Pin 2, HDD1 fail LED

Pin 4, HDD2 fail LED

Pin 6, HDD3 fail LED

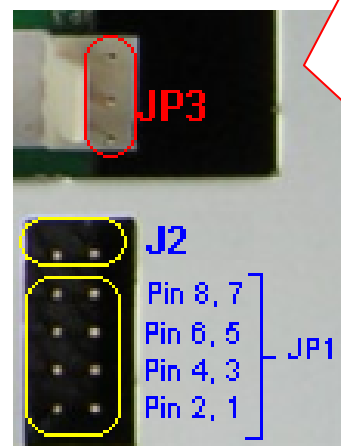
Pin 8, HDD4 fail LED

#### Jumpers supporting FAN detection

J2:

Open, FAN error w/ Buzzer Alarm (default)

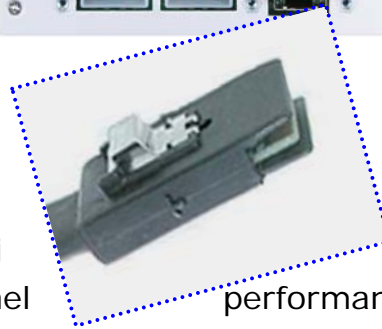
Short, Without FAN Detection



#### Jumpers connecting to FAN

JP3

## 4. About Multilane Mini SAS X4 Solution



### Features and Benefits:

- One internal 36pin Mini cable covering 4-channel performance (Max. 10.0G per cable)
- Bandwidth won't be shared by other HDD
- Latch type connector ensure the tightness for secure data transference

SASX4 (SFF-8087)

performance (Max. 10.0G