

1. Overview

With the innovative architecture, this chassis is designed to allow plugging any standard SAS or SATA PCI-e x8 Raid control Card directly into its internal PCI-e slot and use its high speed external PCI-Express x8 (20Gbps) as the host interface for substantial connection and high performance. Installation the HBA procedure in this chassis is as easy as you install the HBA on Mac or PC Workstation.

2. Package Checklist

Before installing this unit, verify that package contains the following items.

- A** Enclosure x 1
- B** HDD Tray x 12 (Installed in chassis)
- C** PCI-e x8 Host Adaptor x1
- D** PCI-e x8 cable(1.5meter) x1
- E** Internal miniSAS(SFF8087) to miniSAS(SFF8087), 30cm x3
- F** Power Cord x 1 (if Redundant PSU x2)
- G** Hard Drive Mounting Screw x 48
- H** Key for HDD tray x 2

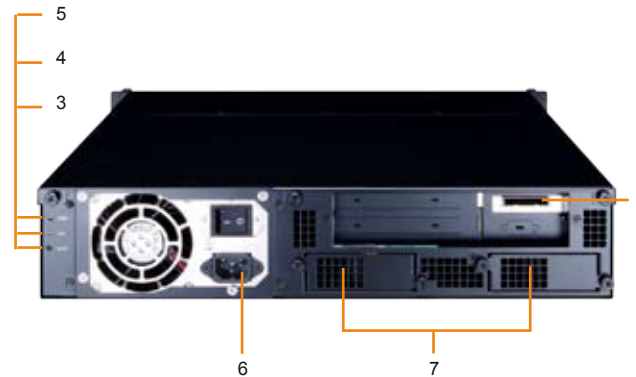


Notify your sales representative if any of the above items are missing or damaged.

3. Description of Panel Layout



- 1. HDD Power LED**
- 2. HDD Status LED**
- 3. Mute Button**
Reset for Buzzer Beeping
- 4. Fan Status LED**
Normal – Green;
Fail – Red (too slow rpm or stop)
- 5. Temperature LED**
Normal – Green; Over 55°C – Red



- 6. Power Cord Receptacle**
- 7. How-Swappable Blower Modules**
- 8. PCI-e x8 connector**
Connecting External PCI-e cable to Host

4. Hardware configuration

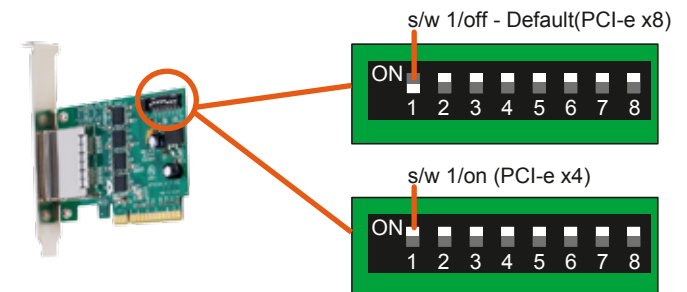
Slot1 : 8-Lane slot for Raid Card (HBA).



Notice 1

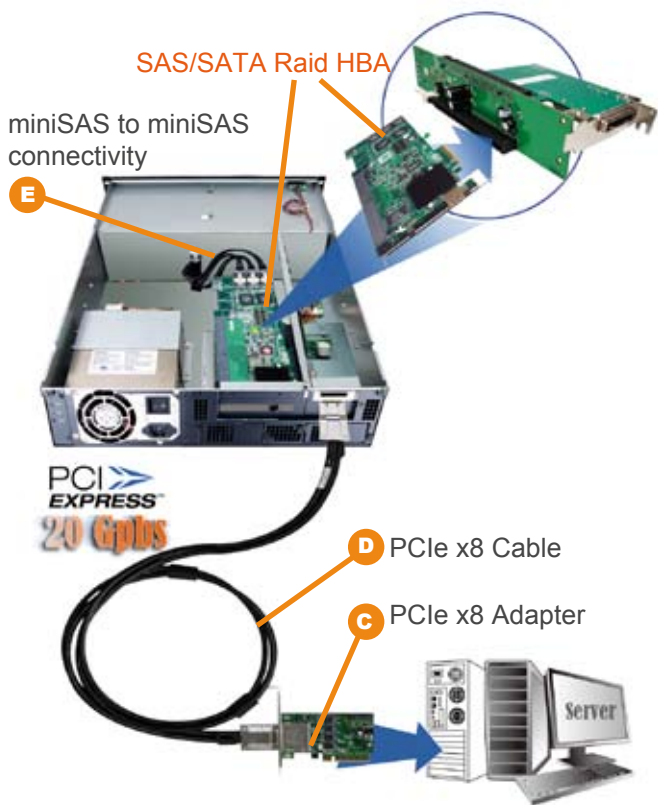
There must be at least one PCI-e (PCI Express) x8 or x16 “slot” in the HOST (Workstation or Computer). But the slot could be PCI-e x4 even it is PCI-e x8 or PCI-e x16 in appearance. Please check the User Manual of the Motherboard or server to make sure the specification.

If only PCI-e x4 is able to be offered, please switch both Host Adaptor Card and Target Adaptor Card to PCI-e x4 as the following figure.

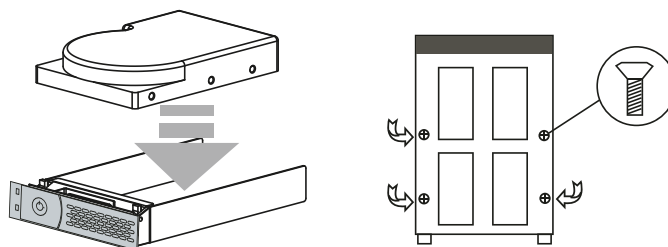


5. Build up procedures

1. Open the chassis by removing the cover.
2. Place PCI-e x8 SAS or SATA control card (HBA) into PCI-e slots of NA322A properly and fix them with thumbscrews on the bracket of the card.
3. Connect all miniSAS to miniSAS cables between the HBA and backplane. Connect the first (top) of minSAS connector on the backplane to Channel 1~4 miniSAS connector on the HBA, the second to Channel 5~8 miniSAS connector of HBA, the third to Channel 9~12 miniSAS connector of HBA.



4. Close the chassis and immobilize it on the server rack or other proper place.
5. Connect the chassis and the **HOST** with PCI-e x8 cable. Then connect it with power source.
6. Take out all the trays.
7. Place all Hard Drives in the tray and fix them with Hard Drive Mounting Screws. Put them back to NA322A.



6. Operation

1. Turn on the power of chassis before you turn on the power of the **HOST**.
2. After all Drives are identified by the **HOST**, please follow the operation procedure indicated by HBA.

**If you have any further question, please contact your regional distributor, or Netstor Technology, Taiwan.
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Q&A (Questions and Answers)

1. According to Netstor's catalogue, the chassis supports SGPIO, what's that for?

When any hard drive fail occurs, the red LED indicator on that tray will light. SGPIO function will be effective while SAS/SATA Raid HBA supports SGPIO function as well. (For instance, Areca's Raid Card)

2. Why does my monitor go blue and the HOST doesn't work after I build up the system?

It's probably because the **HOST** can only offer PCI-e x4 channel, even the slot appearance is 16-Lane. NA322A could not work properly under PCI-e x4.