



PAC Storage 3060L Series

Quick Installation Guide



Only qualified service personnel should install and service this product to avoid injury.

Observe all ESD procedures during installation to avoid damaging the equipment.

1 Preparing tools



Refer to the Unpacking List for the exact amount of items included in the package.

NOTE There are two optional rackmounting kits available. Depending on the one you purchased, refer to the following installation instructions.

Unpack the equipment and make sure the following tools are available before the installation.

1.1 User-provided tools

- Phillips screwdriver (mid-size)
- Flat blade screwdriver (small-size)
- Anti-static wrist wrap
- Host link cables

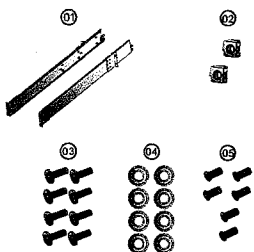
1.2 Accessory box content

- Screws: M5, M6, #10-32, #6-32
- Cables: Power cord x 2

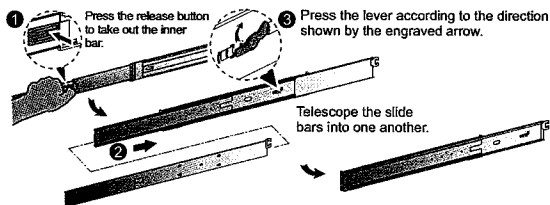
2 Rackmount Installation

2.1 Rack mounting kit content

Item	Description	Quantity
01	Rack slide rail	2
02	M5 nut	2
03	M5 x 10mm screw	8
04	Ø 5.1mm washer	8
05	M4 x 6mm screw	6



2.2 Separating the enclosure slide rail from the rack slide rail

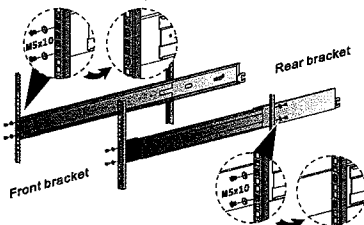


2.3 Determining the rack slide rail bracket locations

1. Measure and determine where in the rack slide rail is going to be installed.
2. Attach the cage nuts to the rack posts if you have un-threaded holes on the rack.

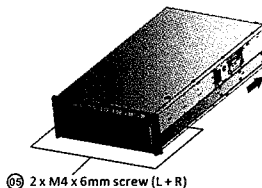
2.4 Attaching the rack slide rails to the rack posts

1. Using 2 x M5 x 10mm screws and washer, each slide rail front and rear. Secure the rack slide rails to the rack posts.
2. Repeat the procedures for the other rack slide rail.
3. Once the rails are installed, proceed to attach the cable management bar to the rear end of rack installed rails.



2.6 Attaching the enclosure slide rails to the enclosure

1. To install the enclosure slide rail, align the sockets against the four hinges on the enclosure.
2. Fit the enclosure slide rail onto the hinges and slide it backwards.
3. Use a M4 x 6mm screw to secure the enclosure slide rails onto both sides of the enclosure.



2.7 Inserting the enclosure into the rack

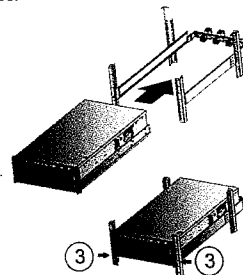


NOTE DO NOT install any hard drive before inserting the chassis to the rack.

1. Align the enclosure slide rail to the rack slide rail and insert the chassis to the rack. Due to the weight, THREE people might be required.

2. You should hear a "click" sound when the enclosure slide rail engages the rack slide rail at the release lever.

From here, to fully insert the enclosure into the rack, place your left index finger on the left release lever and push downwards; place your right index finger under the right release lever and push upwards to allow the slide rail to fully retract back into the rack.



3 Installing Host Board(s)

If you want to install any host boards, you have to remove the controller first.

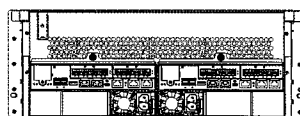
3.1 Removing the controller



Before you remove the controller, please power off the system and disconnect all the cables that are connected to the controller module.

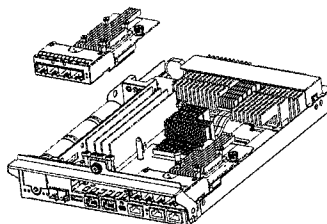
NOTE To remove/install the controller, always use the slot A (left) first.

Loosen the screws (shown in red). Hold the rim of the controller and it can be pulled out from chassis.



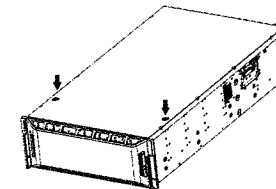
3.2 Installing the Host Board

Use the guide pin (shown in blue) and the thumb screw (shown in red) to secure the host board.

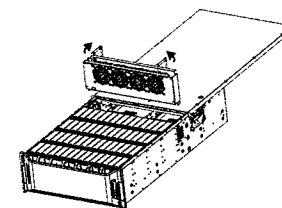


4 Removing / Installing the fan

1. Push the two release buttons (as pointed) simultaneously. Move the top cover gently backward. Please note, the cover cannot be removed in total from the enclosure.



2. Loosen the screws (shown in red) and lift up the handles (in blue) to remove the fan.



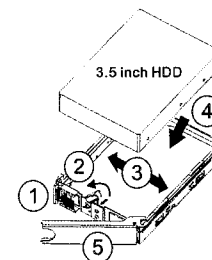
5 Installing Hard Drives



WARNING DO NOT install any hard drives before inserting the chassis to the rack.

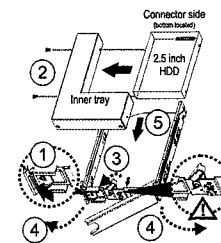
5.1 Installing 3.5" drive

1. Push the release button (1) to the left. Lift the drive tray out the enclosure.
2. Pull up the lever (2).
3. Widen the tray (3).
4. Insert the HDD into the widen tray (4). Make sure that each side 2 HDD mounting holes correspond to the 2 pins each drive tray side. These two pins each side will secure the hard drive inside the tray.
5. Rejoin the tray by joining the release button tray side with the HDD first, followed by the other side of the drive tray. Pull down the lever.
6. Insert the drive tray with up-lifted release latch (5) into the enclosure.



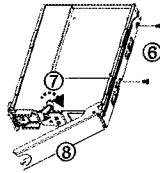
5.2 Installing 2.5" drive

1. Push the release button (1) to the left. Lift the drive tray out the enclosure.
2. Join the 2.5 inch HDD and two of its screw holes on one side with the inner tray using two (2) screws (2).
3. Pull up the lever (3) and widen the tray (4).
4. Insert the HDD assembled to the inner tray into the widen drive tray (5).



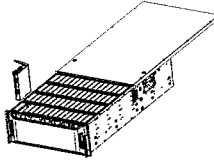
NOTE Make sure that the 2 inner tray screw holes on the release button side correspond with the 2 pins of the drive tray side. These two pins will secure the hard drive on the release button side.

- Rejoin the drive tray by joining the release button tray side with the inner tray first, afterwards join the outer drive tray with the 2.5 inch drive using 2 screws (6).
- Pull down the lever (7).
- Insert the drive tray with up-lifted release latch (8) into the enclosure.



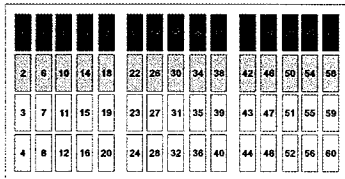
To insert the tray (shown in red) back to the system, firmly push the hard drive downwards to ensure full connection. The bracket handle should clamp down onto the top of the hard drive.

After installing all hard drives close the top cover (shown in blue) by moving it gently forward till it fits with the front panel.



5.3 Hard drive installation sequence

Initial set (in blue) of 12 hard drive installation locations: 1, 6, 11, 16, 21, 26, 31, 36, 41, 46, 51, 56



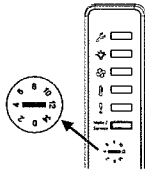
Front of enclosure

6 Connections

6.1 Expansion enclosure connections

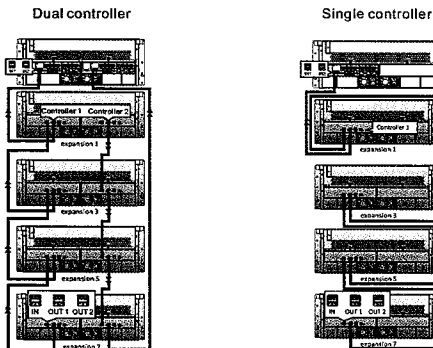
6.1.1 Preparing connections

- Locate the enclosure ID switch on the front of the chassis.
- Use a small flat blade screwdriver to set a unique ID(s) for the enclosure. Valid ID numbers are 1 to 15.



NOTE Please set system ID number starting from "1". When expanding to multiple expansions, please acquire same model(s). When mixing expansion form factors, please connect larger form factors at the end of the daisy-chain.

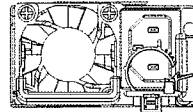
6.1.2 Expansion enclosure connections



7 Powering up

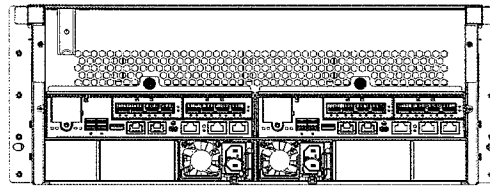
7.1 Connecting the power cord

Connect the power cords to the power socket(s) (in blue) on the PSU(s).



7.2 Powering up the Storage System

- Power up the networking devices.
- Power up the expansion enclosures.
- Power up the storage system by pressing the main power switch of the power supply located on the rear panel (shown in blue).
- Power up the application servers.



7.3 Verifying the status LEDs (front of enclosure)

Observe the front of the enclosure. If the LED indicators show different status than described below, or if you hear an audible alarm, contact customer support.

7.3.1 LED panel

LED	Item	Description	Button	Item	Description
1	Service	OFF	6	Mute / Service	
2	Power	ON			
3	Cooling	ON			
4	Thermal	ON			
5	System	ON			

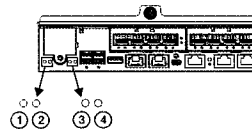


7.4 Verifying the status LEDs (rear of enclosure)

Observe the rear of the enclosure. If the LED indicators show different status than described below, or if you hear an audible alarm, contact customer support.

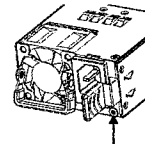
7.4.1 Controller LEDs:

Item	Description
1	Ctrl Status LED: On (green)
2	CBM Status LED: On (green) or Off
3	C Dirty LED: Off
4	Hst Bsy LED: Off



7.4.2 Verifying power status

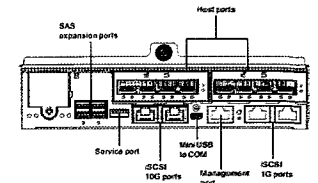
- One power status LED is located on each PSU itself (as pointed). A Green LED indicates a working power supply. Amber indicates a faulty power supply.
- The main power status LED is located on the front LED panel (see 5.3.1).



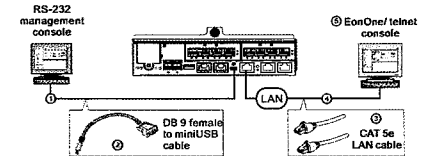
8 Interfaces

8.1 Overview of interfaces

Managing and monitoring the system is available through two types of interfaces. Refer to the sample figures on the right for controller host ports and management interfaces.



- Host PC (in-band connection):** Users will access the system from the host servers through the host links.
- Ethernet management port (out-of-band connection):** You can access the system from a remotely connected computer using Ethernet cables. You need to obtain the IP address, static IP address or DHCP, from your network administrator. If neither is available, use the default address <10.10.1.1>.



- Serial port:** You can access the system from a directly connected computer through the RS-232C port. The serial cable is user-supplied.

Item	Description
Baud rate	38400
Data bit	8 bit
Parity	none
Stop bit	1
Flow control	hardware

9 Accessing management tools

You may control the system using the firmware menu (through RS-232C interface) or the EonOne GUI software (through the Ethernet or host PC interface). For more tools and their details, refer to the manuals in the CD-ROM.

Firmware menu:

- Open a terminal emulation software such as VT-100 on your PC.
- Configure the serial port as shown in the previous section and connect the system. The main firmware menu will appear.
- Here you can check the current IP settings.

EonOne:

- Connect the system to a remote computer through the Ethernet port or to a host PC through the host links.
- Install the EonOne software suite, included in the CD-ROM, into your computer.
- Start the EonOne software. Type in user name (default: admin) and password (default: admin) to log-in as administrator.



- Add the system to the **Device List**.
- Click the **Gear Icon** on top of the right to configure the system.
- To activate a license click on **System**.

- Click on **License Management** and generate a License Application File by clicking on **Generate License Apply File**. Save the file.
- Visit <http://www.infotrend.com/license> to register by use of the License Application File. The **License Number** is attached in the software license envelop.
- Type in the **License Number**. Download the **License Key File** and upload it to EonOne to activate the license.

NOTE Install EonPath (multi-pathing driver) ONLY to Windows 2003 based servers. Other OS use their build-in native multi-pathing driver.