



# PAC Storage 3000 Series

Cloud-integrated Unified Storage  
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. 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

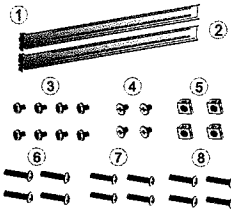
- Screws: M5, M6, #10-32, #6-32
- Cables: Power cord x 2

## 2. Rackmount Installation

### 2.1 Rack Ear Mount Kit

#### 2.1.1 Rack Ear Mount Kit Content

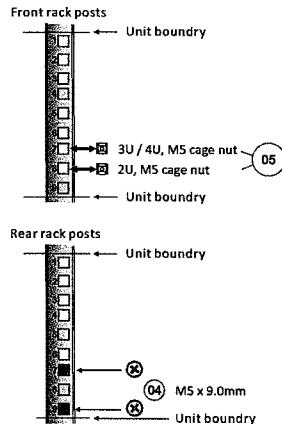
Item Description	Quantity
01 Mounting bracket assembly, left-side	1
02 Mounting bracket assembly, right-side	1
03 Hexagon washer screws #6-32mm	8
04 Truss head screws M5 x 9.0mm	4
05 M5 cage nuts	4
06 M5 x 25mm	4
07 M6 x 25mm	4
08 #10-32 x 25.4mm	4



#### 2.1.2 Rack Ear Mount Kit Installation

Positions for chassis / M5 cage nut:

- Determine the exact position where the enclosure will be installed on the rack post (front and rear).

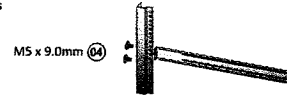


- Insert the cage nuts into the front rack post.

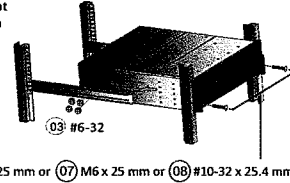


If the rack does not require M5 cage nuts and has its own screw threads, then use the M6 or #10-32 screws for the front posts.

- Install the fixed rails to the rear posts and secure them using truss head screws.



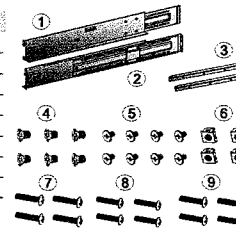
- With one person holding the enclosure at the installation height, the other person can secure the enclosure in place by placing two M5 or M6 x 25mm screws at the front and eight #6-32 screws on both sides (four on each side).



### 2.2 Slide Rail Kit

#### 2.2.1 Slide Rail Kit Content

Item Description	Quantity
01 Mounting bracket assembly, left-side	1
02 Mounting bracket assembly, right-side	1
03 Inner glides	2
04 Flathead screws #6-32 L4	6
05 Truss head screws M5 x 9.0mm	8
06 M5 cage nuts	4
07 M5 x 25mm	4
08 M6 x 25mm	4
09 #10-32 x 25.4mm	4

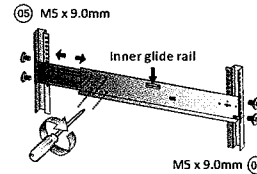


#### 2.2.2 Slide Rail Kit Installation

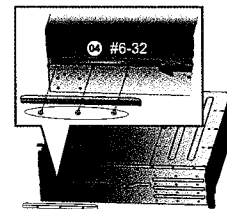
- Determine the exact position for enclosure installation (front and rear rack posts).

- Refer to the illustration below to insert cage nuts into the front rack post and truss head screws to secure the slide rail.

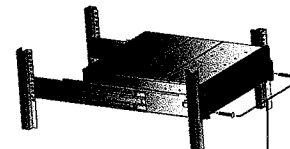
- Adjust the length by loosening the four screws on the slide rail. Secure the slide rails to front and rear posts using truss head screws and tighten the four screws on the slide to fix the length.



- Attach the inner glides to BOTH sides of the enclosure using flathead screws #6-32.



- With the assistance of another person, lift and insert the enclosure onto the slide rail. Make sure the inner glides on both sides of the enclosure meet the inner glide rail. Secure the enclosure using M5 or M6 screws from the front.



07 M5 x 25 mm or 08 M6 x 25 mm or 09 #10-32 x 25.4 mm



Positions for chassis / M5 cage nut: Please refer to Rack Ear Mount Kit's section.

## 3. Installing Hard Drives



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

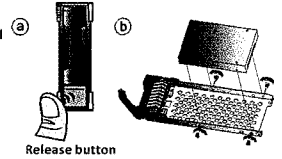
### 3.1 Installing a 2.5 inch HDD into the tray (3025B models excluded)

To install the hard drive for GS 3000 series (3025B models excluded), follow the steps below.

If you want to install the hard drive for GS 3025B models, refer to sections 3.3 and 3.4.

#### a. Removing the HDD tray

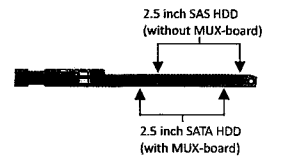
Press on the release button to open the bezel and gently pull the hard drive tray out of the enclosure.



#### b. Attaching the HDD

1. Place the hard drive into the drive tray. The interface connector should face the open side of the tray, while the label side should face up, with the label of the hard drive facing up.

- Secure the HDD onto the tray according to the following screw positions.



### 3.2 Installing a 3.5 inch HDD into the tray

#### a. Removing the HDD tray

Press the release button to open the bezel and gently pull the HDD tray out of the enclosure.



#### b. Attaching the HDD

1. The interface connector should face the open side of the tray, while the label side should face up.

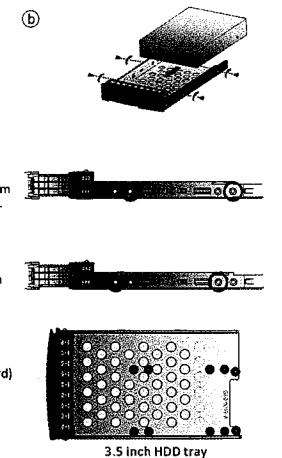
- Secure the drive by fastening four (4) of the supplied screws.

- 3.5" SATA HDD in a single-controller system
- 3.5" SAS HDD in a single or dual controller system

- 3.5" SATA HDD in a dual-controller system

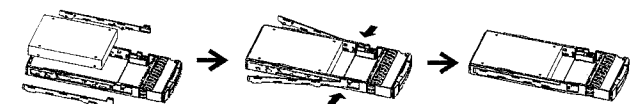
#### c. Screw locations for 2.5" HDD in 3.5" tray

- 2.5 inch SATA HDD / SSD (with MUX board)
- 2.5 inch SAS HDD / SSD (without MUX board)
- MUX board screw locations



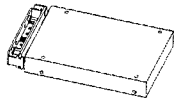
### 3.3 Installing HDD for GS 3025B only (without MUX board)

Place the 2.5" hard drive into the drive tray. Secure the clips (shown as blue below) to both sides of the tray. Make sure they are fully attached to the tray.

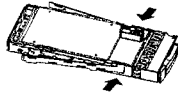


### 3.4 Installing HDD for GS 3025B only (with MUX board)

Attach the MUX board (shown as red below) to the drive.



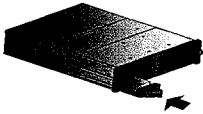
Place the hard drive into the drive tray. Secure the clips (shown as blue below) to both sides of the tray.



### 3.5 Inserting and securing the HDD tray

1. Insert with the tray bezel open.

2. Once fully inserted, close the bezel till it's snapped.

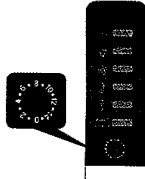


## 4. Connections

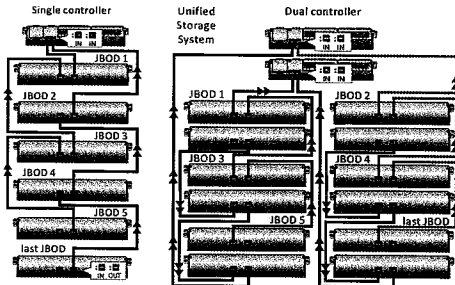
### 4.1 JBOD connections

#### 4.1.1 Preparing JBOD connections

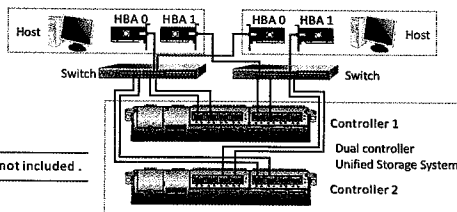
1. Locate the enclosure ID switch on the front of the JBOD chassis.
2. Use a small flat blade screwdriver to set a unique ID(s) or the JBOD enclosure. Valid ID numbers are 1 to 15.



### 4.1.2 JBOD connections

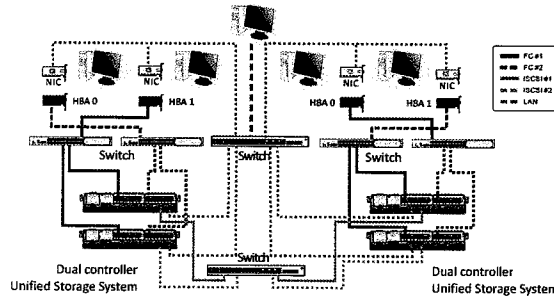


### 4.2 Recommended connection between host servers, switches and Unified Storage Systems.



Host link cables are not included.

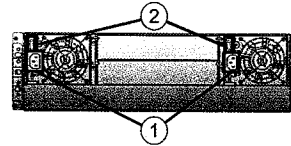
### 4.3 Recommended topology for remote replication connection.



## 5. Powering up

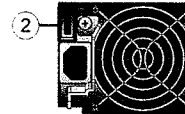
### 5.1 Connecting the power cord

Connect the included power cord(s) to the power socket(s) of the Unified Storage System (1).



### 5.2 Powering up the Unified Storage System

1. Power up the networking devices.
2. Power up the JBODs
3. Power up the Unified Storage System by pressing the main power switch of each power supply located on the rear panel (2).
4. Power up the application servers.



### 5.3 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.

#### 5.3.1 LED panel

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



#### 5.3.2 Drive tray status LED

1. Drive Activity LED: Flashing = R/W activity (Blue)

2. Power Status LED: On (Green) Failure (Red)



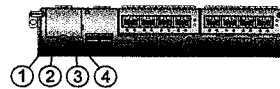
The status LEDs of each 2.5" drive tray are located below the tray itself on the front panel of the enclosure.

### 5.4 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.

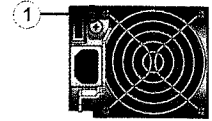
#### 5.4.1 Controller LEDs:

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



### 5.4.2 Verifying power status

1. One power status LED is located on each PSU itself (1). A Green LED indicates a working power supply. Amber indicates a faulty power supply.



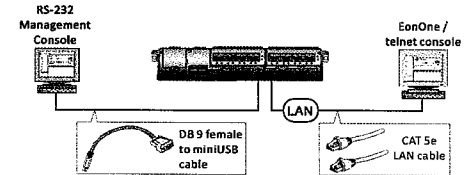
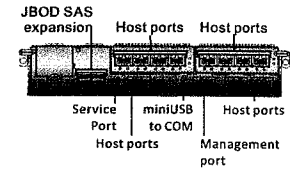
2. The main power status LED is located on the front LED panel (2).

## 6. Interfaces

### 6.1 Overview of interfaces

Managing and monitoring the Unified Storage System is available through two types of interfaces. Refer to the sample figures right hand side on controller host ports and management interfaces.

- Host PC (in-band connection): Users will access the Unified Storage System from the host servers through the host links.
- Ethernet Management port (Out-of-band connection): You can access the Unified Storage 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 Unified Storage 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

## 7. Accessing management tools

You may control the Unified storage 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.

### 7.1 Firmware menu:

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

### 7.2 EonOne:

1. Connect the Unified Storage System to a remote computer through the Ethernet port or to a host PC through the host links.
2. Install the EonOne software suite, included in the CD-ROM, into your computer.
3. Start the EonOne software. Type in user name (default: admin) and password (default: admin) to log-in as administrator.
4. Add the Unified Storage System to the Device List.
5. Click the Gear icon right, top to configure the Unified Storage System.
6. To activate a license click on System.
  - 6a. Click on License Management and generate a License Application File by clicking on Generate License Apply File. Save the file.
  - 6b. Visit <http://www.infortrend.com/license> to register by use of the License Application File. The License Number is attached in the software license envelop.
  - 6c. Type in the License Number. Download the License Key File and upload it to EonOne to activate the license.

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