

PCI-ENC8G-24UM-2x2

2U 24-Bay 2x2 NVMe JBOF



User Manual

First edition, Mar. 2020

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1. Package Checklist

Before the installation of the enclosure, verify that the items below are included in the package:

- A. US_PM-2425 enclosure × 1
- B. U.2 SSD drive tray (already installed × 24)
- C. U.2 SSD mounting screw × 96
- D. Power cords × 2

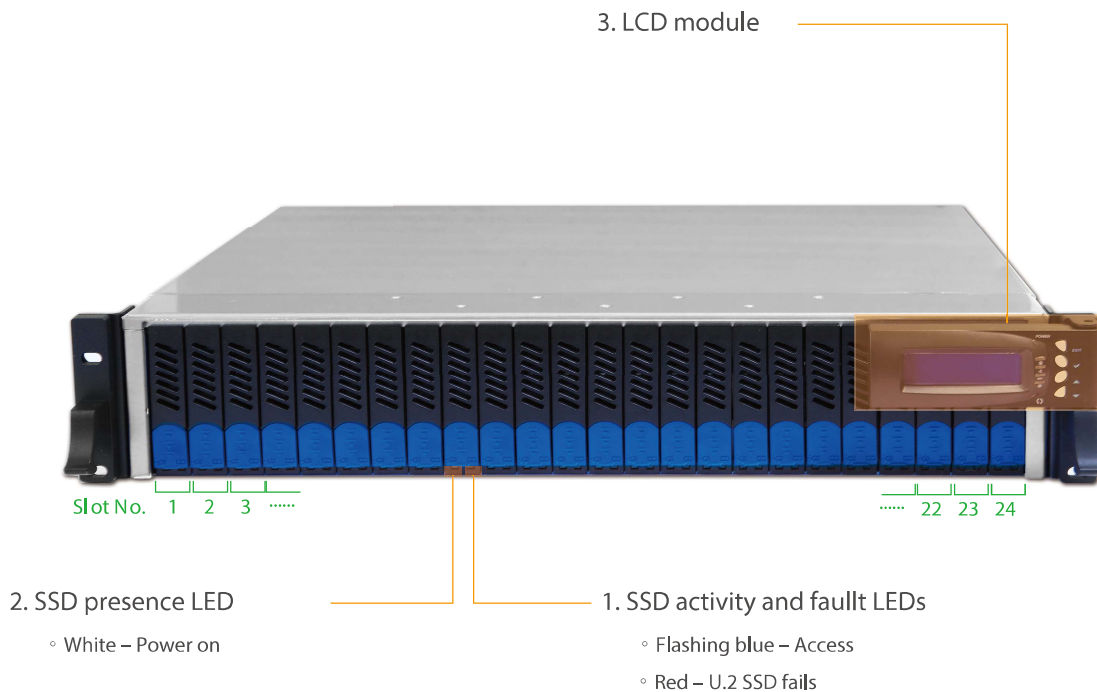
Optional: (number of host cards and cables depends on which mode selected; see section 4)

- E. Host card
- F. HD mini-SAS (SFF-8644) to HD mini-SAS (SFF-8644) data cables

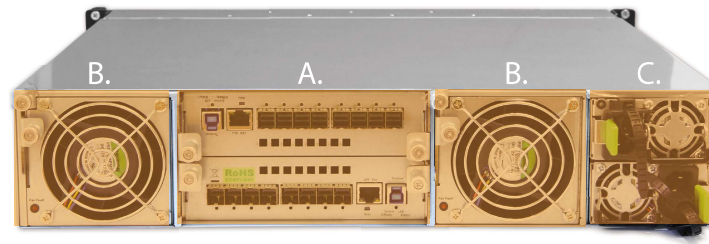
* Please check the requirements in Section 4.

2. Storage Enclosure Description

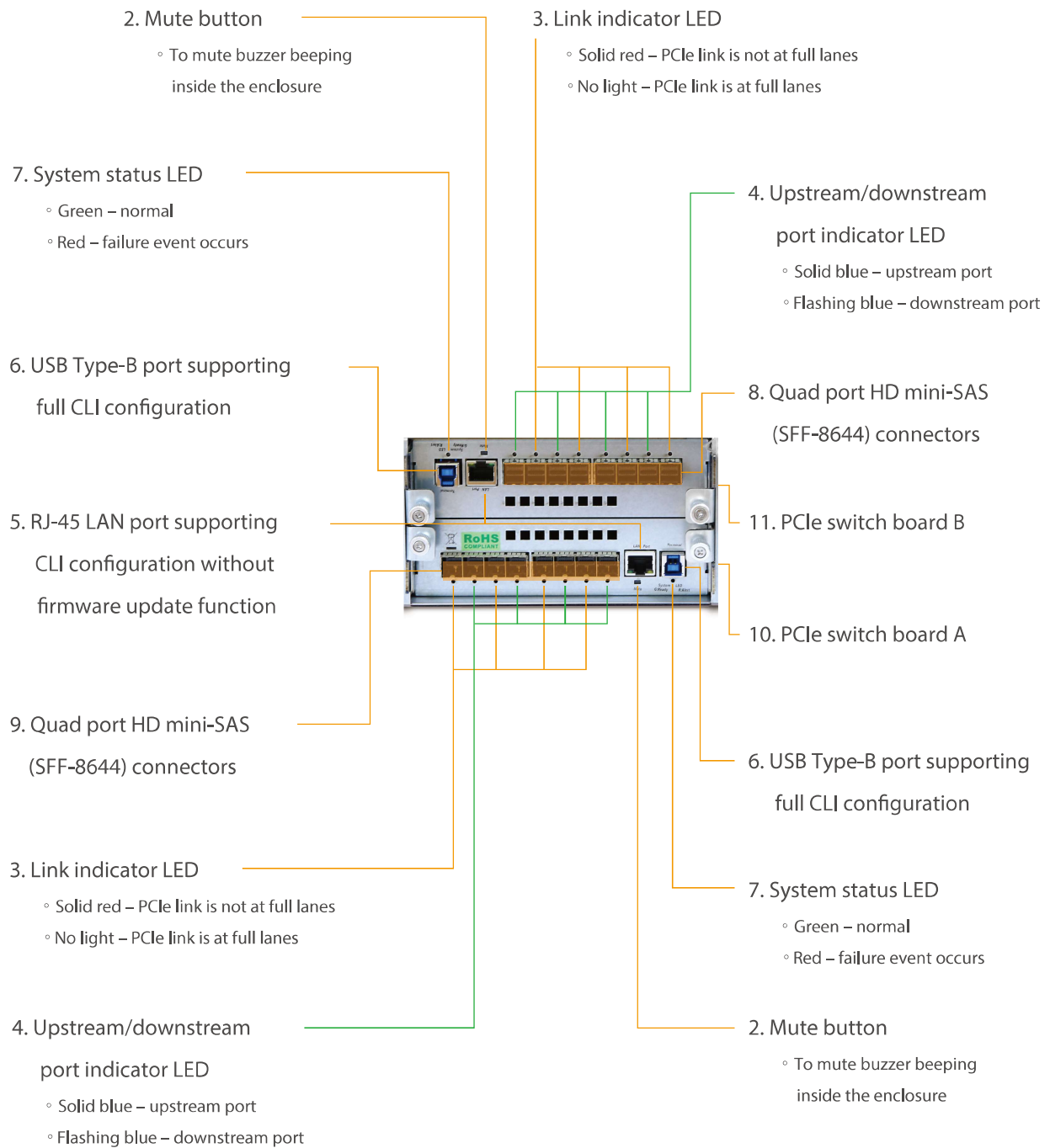
2.1 Front panel



2.2 Rear panel



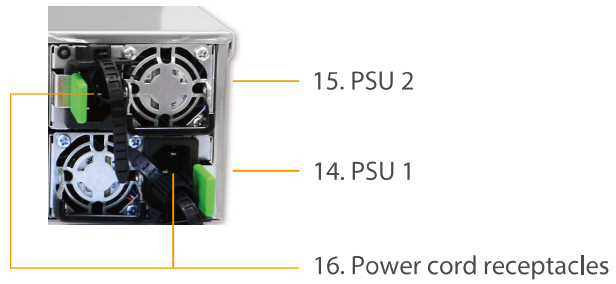
A.



B.



C.

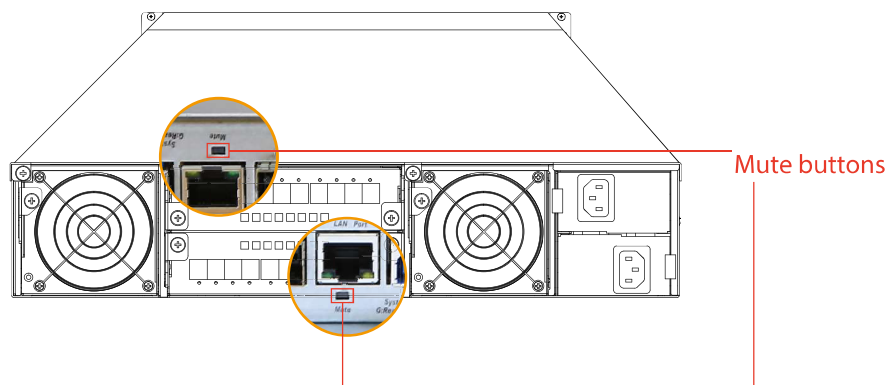


the switch board inside

2.3 Alarm Mute

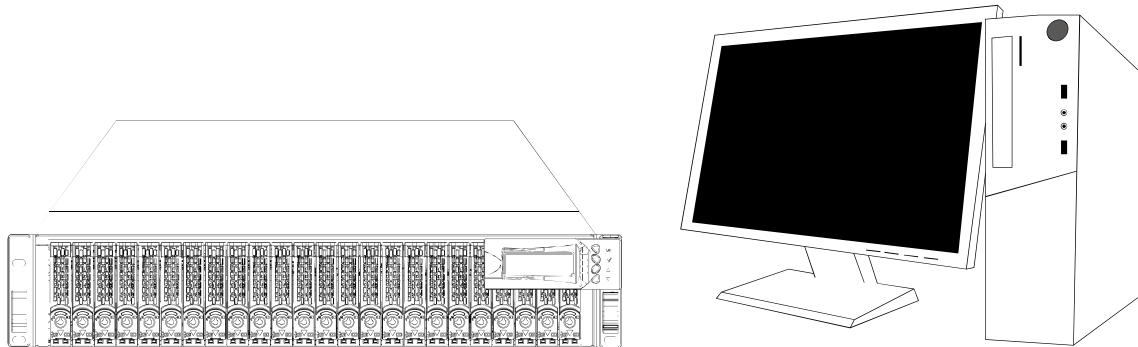
As any of the following occurs, the buzzer on the switch board inside NVMe JBOF will beep. To mute the buzzer beeping, press PCIe switch board A and B's mute buttons under the LAN ports at rear of the enclosure.

- (a) rear cooling fan failure
- (b) over-temperature within the enclosure
- (c) voltage abnormal
- (d) electric current abnormal
- (e) power supply unit failure

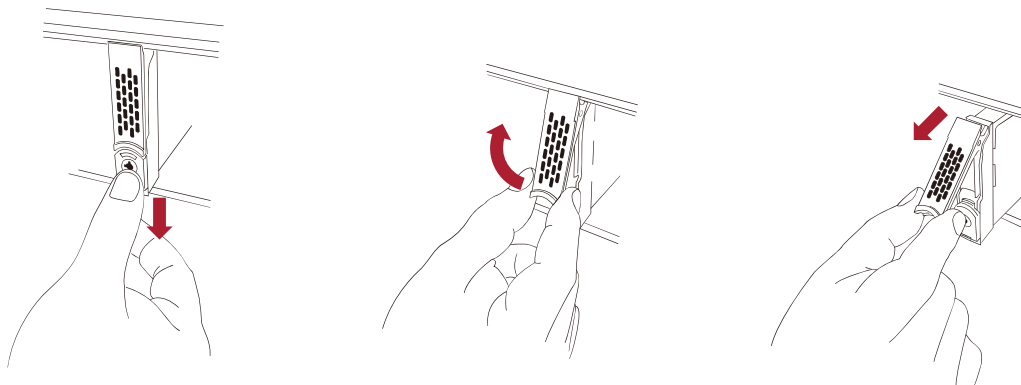


3. Enclosure Installation

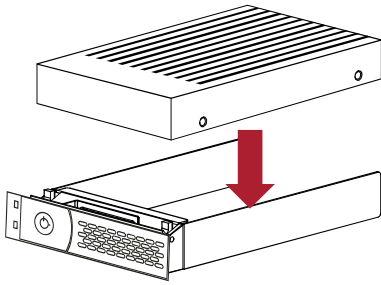
1. Remove the enclosure from its packaging, and place the enclosure next to computer, server, or workstation.



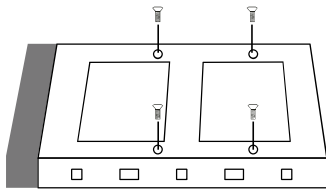
2. Hold one of the U.2 drive trays from the enclosure and push its button downward for the release of the lever until the lever pops out.



3. Place a U.2 drive tray on a flat and level surface, and then attach the 2.5" U.2 NVMe SSD into the tray.

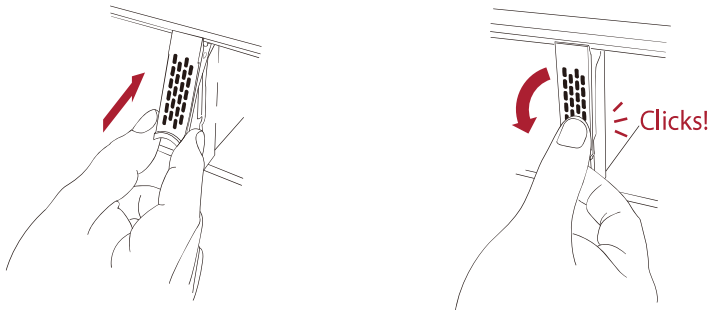


4. Adopt four of the screws provided, and fasten the U.2 NVMe SSD on the tray. Tighten each screw to fasten the U.2 NVMe SSD snugly to the drive tray. Do not tighten the screws overly.



※ You must verify the heads of the four screws are level with the U.2 drive tray while the 2.5" U.2 NVMe SSD is attached to the tray; otherwise, a screw may take hold of the tray from the bottom side and prevent you to pull the tray out of the enclosure.

5. Insert the U.2 drive module into the US_PM-2425 enclosure correctly until its lever appears to shut, and then press the lever to close until it clicks to ensure that the U.2 drive module is within the enclosure.

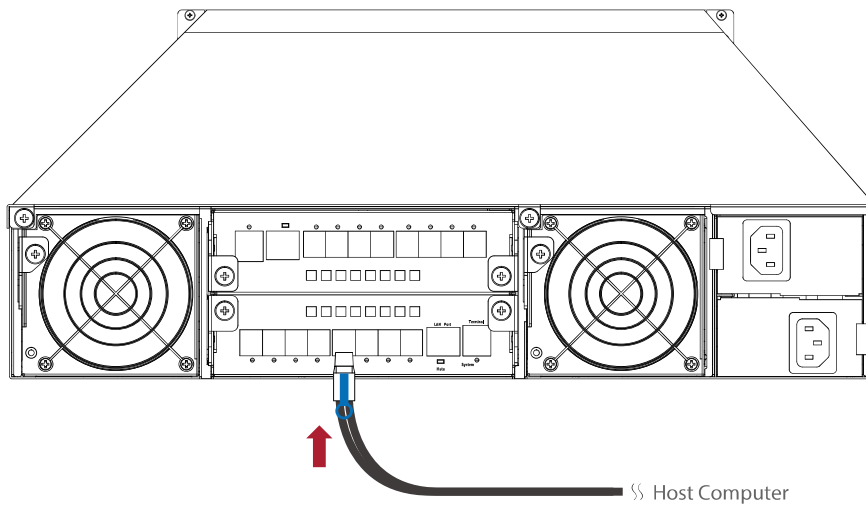


※ Do not force the levers to close while you insert U.2 drive modules into the enclosure. If a lever does not close smoothly, draw out and insert the U.2 drive module again, and then press the lever to close.

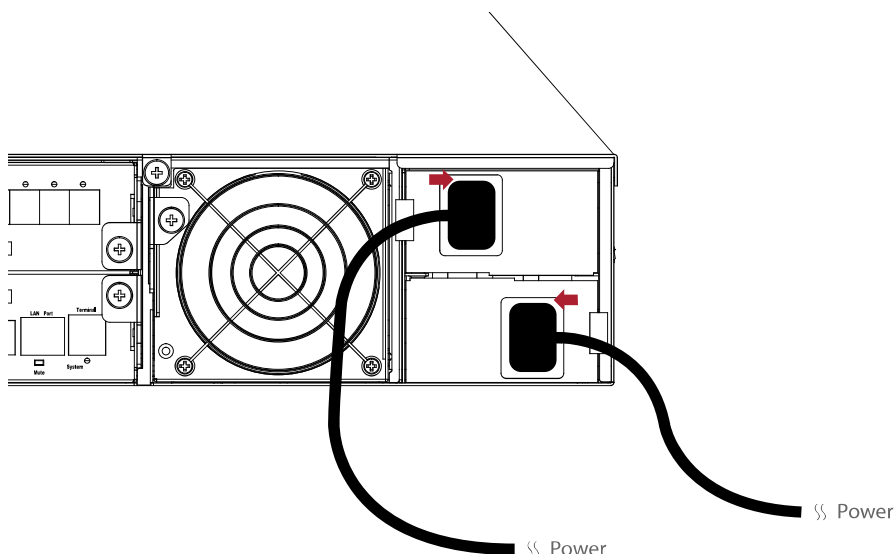
6. Repeat steps 2 to 5 for further U.2 NVMe SSD drives.

7. Connect US_PM-2425 enclosure to the host card in server/computer through the HD mini-SAS (SFF-8644) to HD mini-SAS (SFF-8644) data cables.

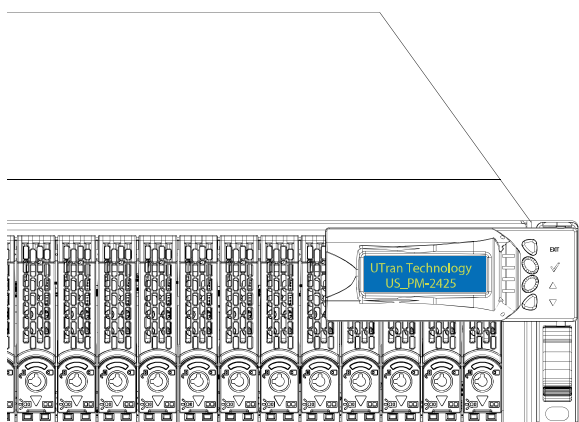
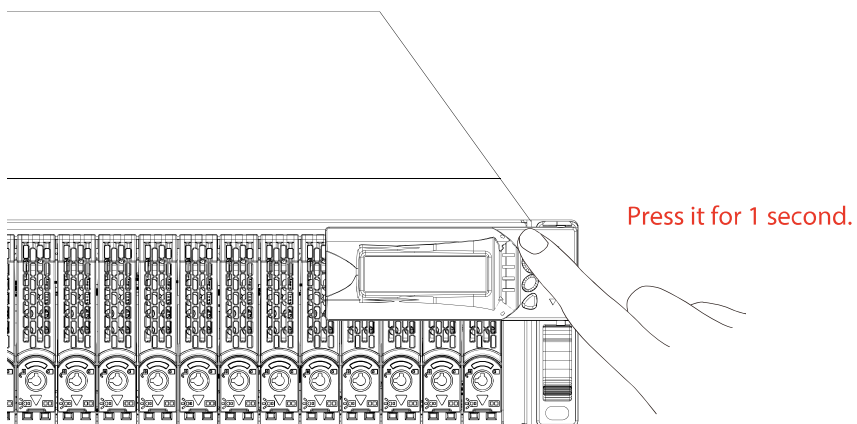
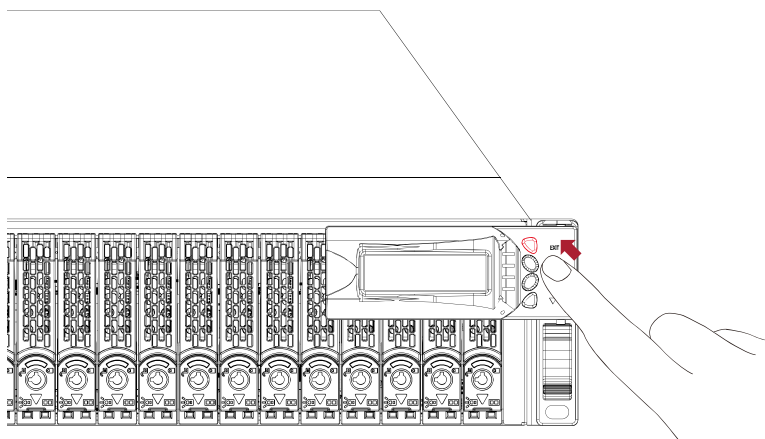
Connection types between US_PM-2425 and host server are shown at [section 4](#) of the user's manual.



8. The US_PM-2425 enclosure is with redundant PSU, so connect one end of the two power cords to the two power receptacles at rear of US_PM-2425 enclosure, and then connect the other end of the two power cords to the power outlets.



9. After the two power cords are connected, you can press the power button for one second on the LCD module in front of the LED display to power on the NVMe JBOF, and then power on the server/computer.



4. Switch Mode

Users can use CLI command to set the switch mode. This NVMe JBOF provides 3 modes for selection in support of application.

1. Mode 1 (Default)

Connection Type A :

When using only one server, one host card, and wishing host connection throughput up to 128 Gbps, please use connection Type A for the system.

Connection type A is for one server that will have access to all the twenty-four U.2 NVMe SSDs within the PCI-ENC8G-24UM-2x2 NVMe JBOF.

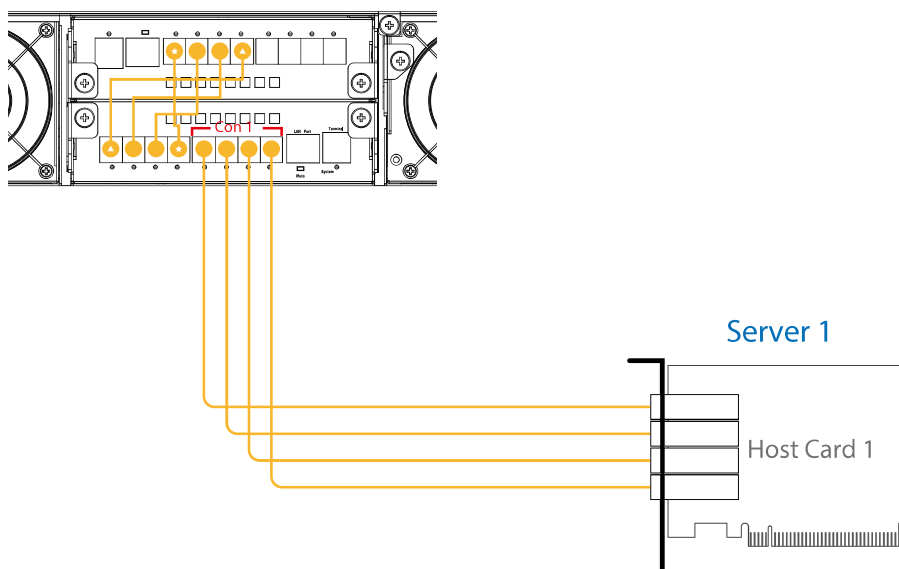
Requirement : 1 x server, 1 x host card, 8 x cables

Bandwidth :

PCIe switch board A + B: PCIe Gen3 x16, 128 Gbps

U.2 NVMe SSD :

Server 1 can access U.2 NVMe SSDs from slot 1 through slot 24



Connection Type B :

When using only one server, two host cards, and wishing doubled host connection throughput up to 256 Gbps, please use connection Type B for the system.

Connection type B is for one server with two host cards installed having access to all the twenty-four U.2 NVMe SSDs within the PCI-ENC8G-24UM-2x2 NVMe JBOF.

Requirement : 1 x server, 2 x host cards, 8 x cables

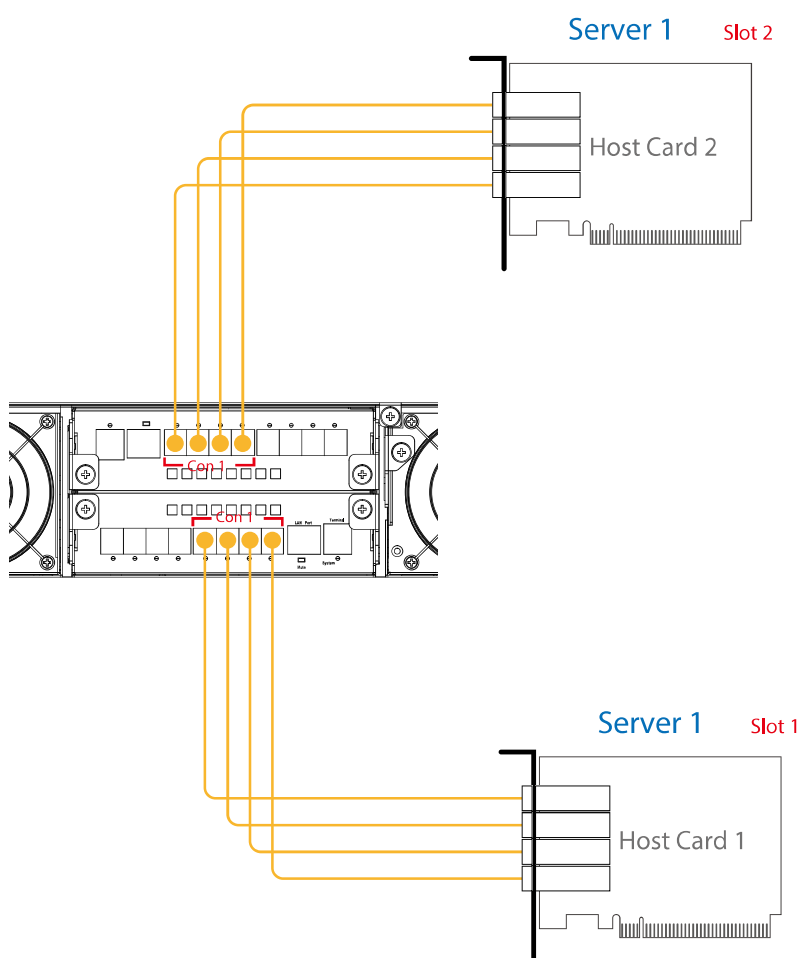
Bandwidth :

PCIe switch board A: PCIe Gen3 ×16, 128 Gbps

PCIe switch board B: PCIe Gen3 ×16, 128 Gbps

U.2 NVMe SSD :

Server 1 can access U.2 NVMe SSDs from slot 1 through slot 24



Connection Type C :

Connection type C is for connecting to two servers with each server having access to twenty-four U.2 NVMe SSDs within the PCI-ENC8G-24UM-2x2 NVMe JBOF.

Requirement : 2 x servers, 2 x host cards, 8 x cables

Bandwidth :

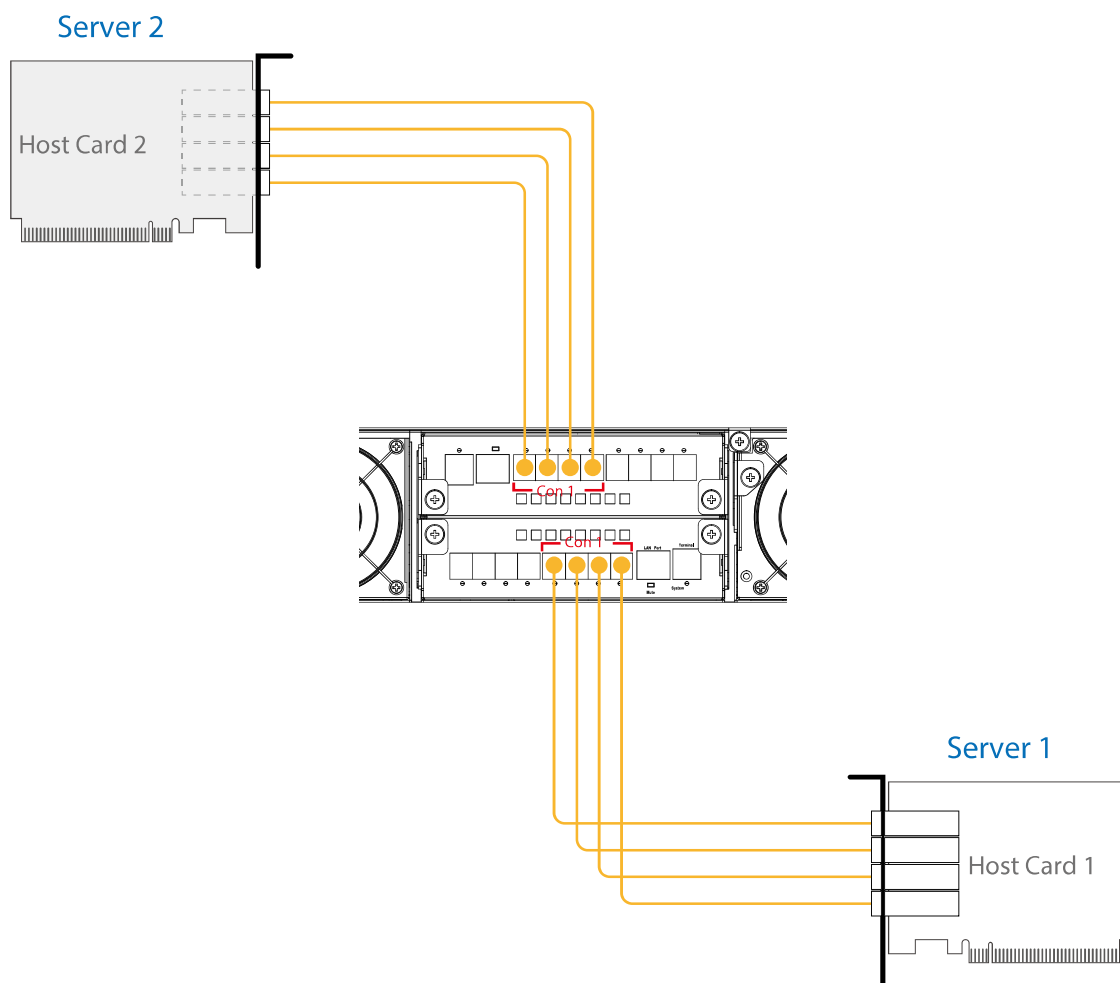
PCIe switch board A: PCIe Gen3 $\times 16$, 128 Gbps

PCIe switch board B: PCIe Gen3 $\times 16$, 128 Gbps

U.2 NVMe SSD :

Server 1 can access U.2 NVMe SSDs from slot 1 through slot 24

Server 2 can access U.2 NVMe SSDs from slot 1 through slot 24



2. Mode 2

Mode 2 is for connecting to up to four servers with each server having access to twelve U.2 NVMe SSDs within the PCI-ENC8G-24UM-2x2 NVMe JBOF.

Requirement : 4 x servers, 4 x host cards, 1 6 x cables

Bandwidth :

PCIe switch board A: PCIe Gen3 x32, 256 Gbps

PCIe switch board B: PCIe Gen3 x32, 256 Gbps

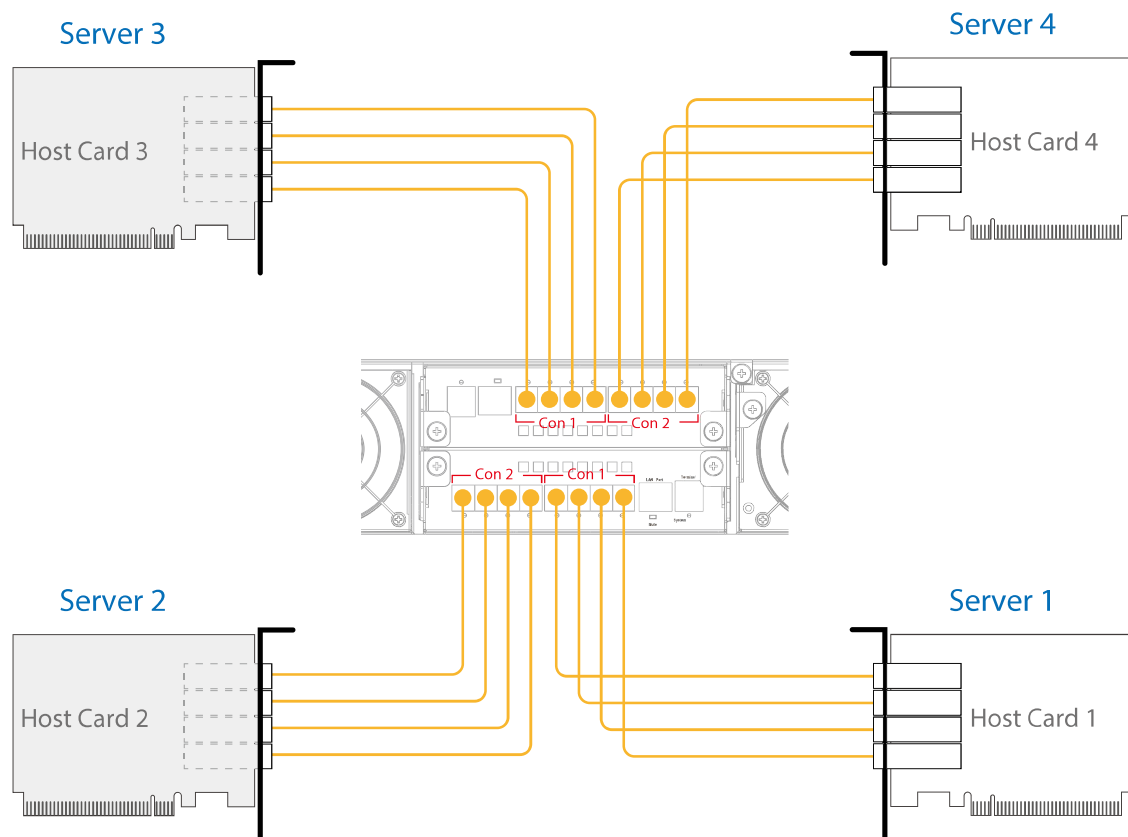
U.2 NVMe SSD :

Server 1 can access U.2 NVMe SSDs from slot 1 through slot 12

Server 2 can access U.2 NVMe SSDs from slot 13 through slot 24

Server 3 can access U.2 NVMe SSDs from slot 13 through slot 24

Server 4 can access U.2 NVMe SSDs from slot 1 through slot 12



3. Mode 3

Mode 3 is for connecting to up to eight servers with each server having access to six U.2 NVMe SSDs within the PCI-ENC8G-24UM-2x2 NVMe JBOF.

Requirement : 8 x servers, 8 x host cards, 16 x cables

Bandwidth :

PCIe switch board A: PCIe Gen3 x32, 256 Gbps

PCIe switch board B: PCIe Gen3 x32, 256 Gbps

U.2 NVMe SSD :

Server 1 can access U.2 NVMe SSDs from slot 7 through slot 12

Server 2 can access U.2 NVMe SSDs from slot 1 through slot 6

Server 3 can access U.2 NVMe SSDs from slot 19 through slot 24

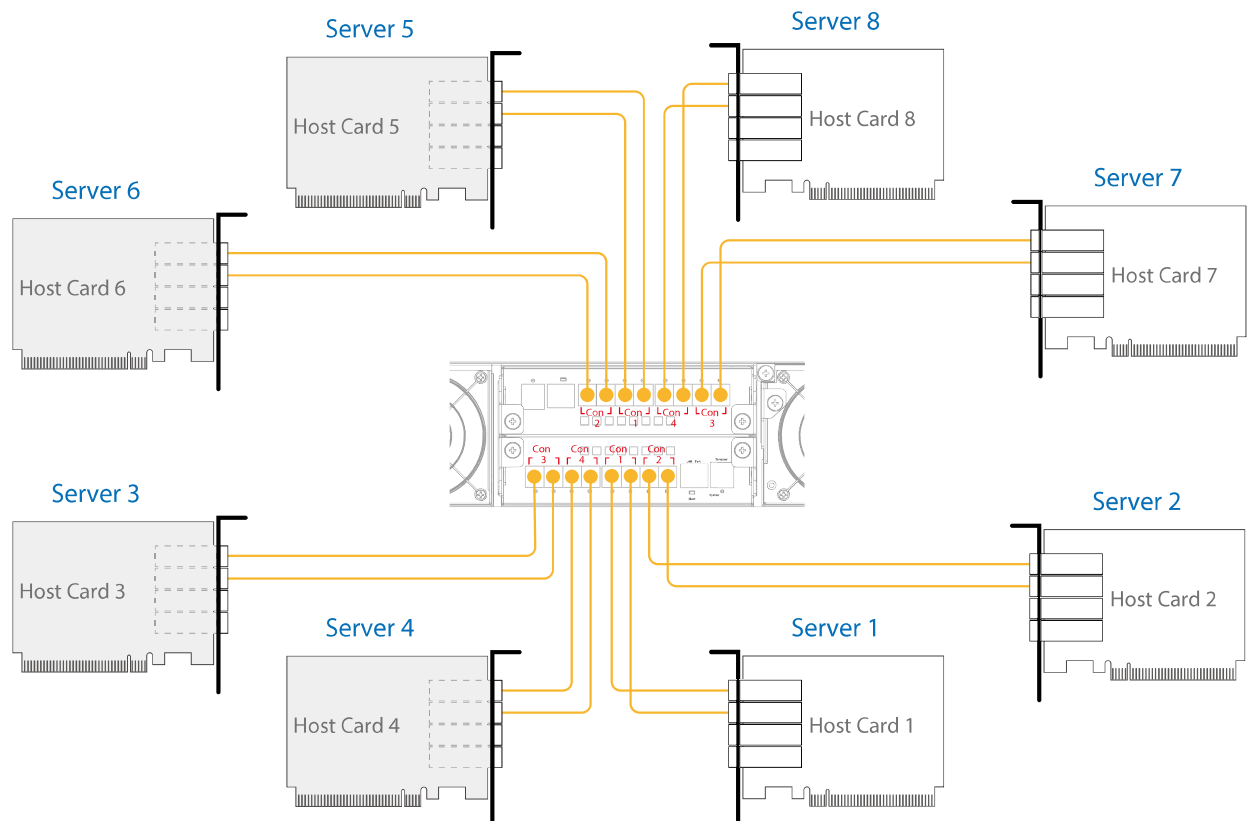
Server 4 can access U.2 NVMe SSDs from slot 13 through slot 18

Server 5 can access U.2 NVMe SSDs from slot 13 through slot 18

Server 6 can access U.2 NVMe SSDs from slot 19 through slot 24

Server 7 can access U.2 NVMe SSDs from slot 1 through slot 6

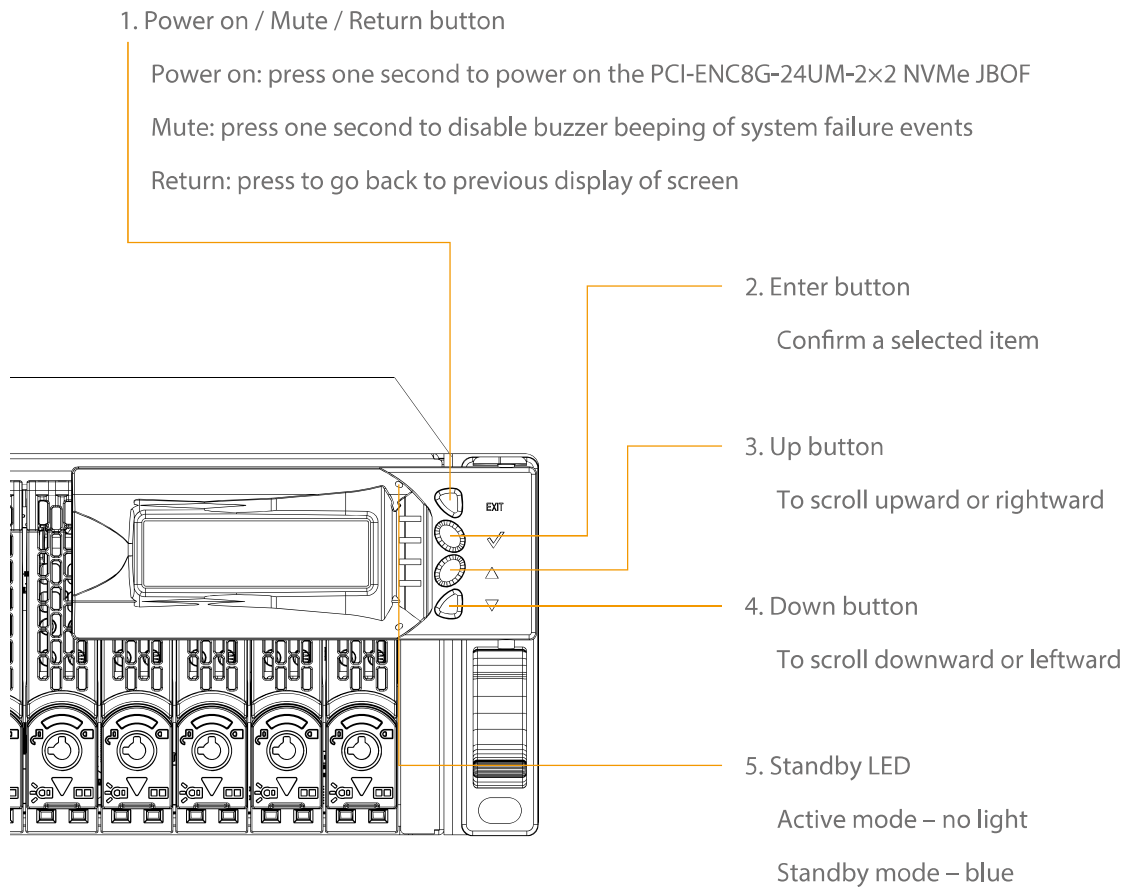
Server 8 can access U.2 NVMe SSDs from slot 7 through slot 12

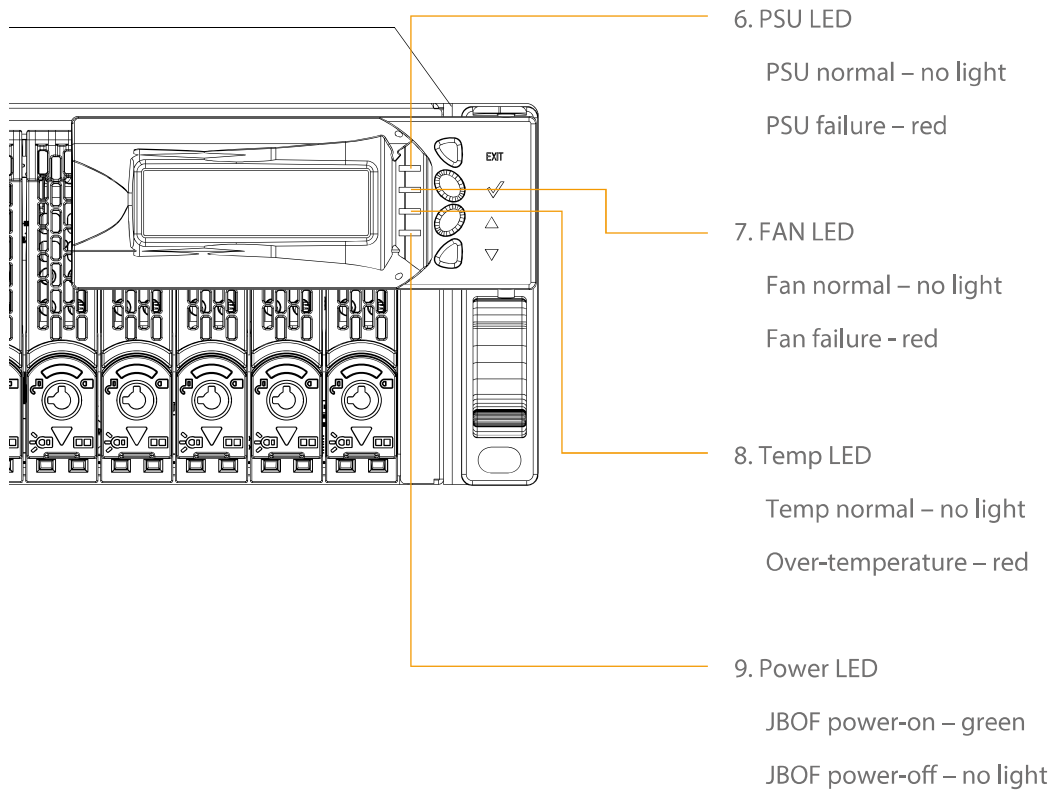


5. LCD Configuration

This section gives the info on using the front LCD module to monitor and configure the PCI-ENC8G-24UM-2×2 NVMe JBOF. The LCD module shows the display of menu, information and status. The LCD screen is able to display up to two lines at a time for menu items and other info.

The four function keys with the LEDs on the LCD module in front of the PCI-ENC8G-24UM-2×2 NVMe JBOF.

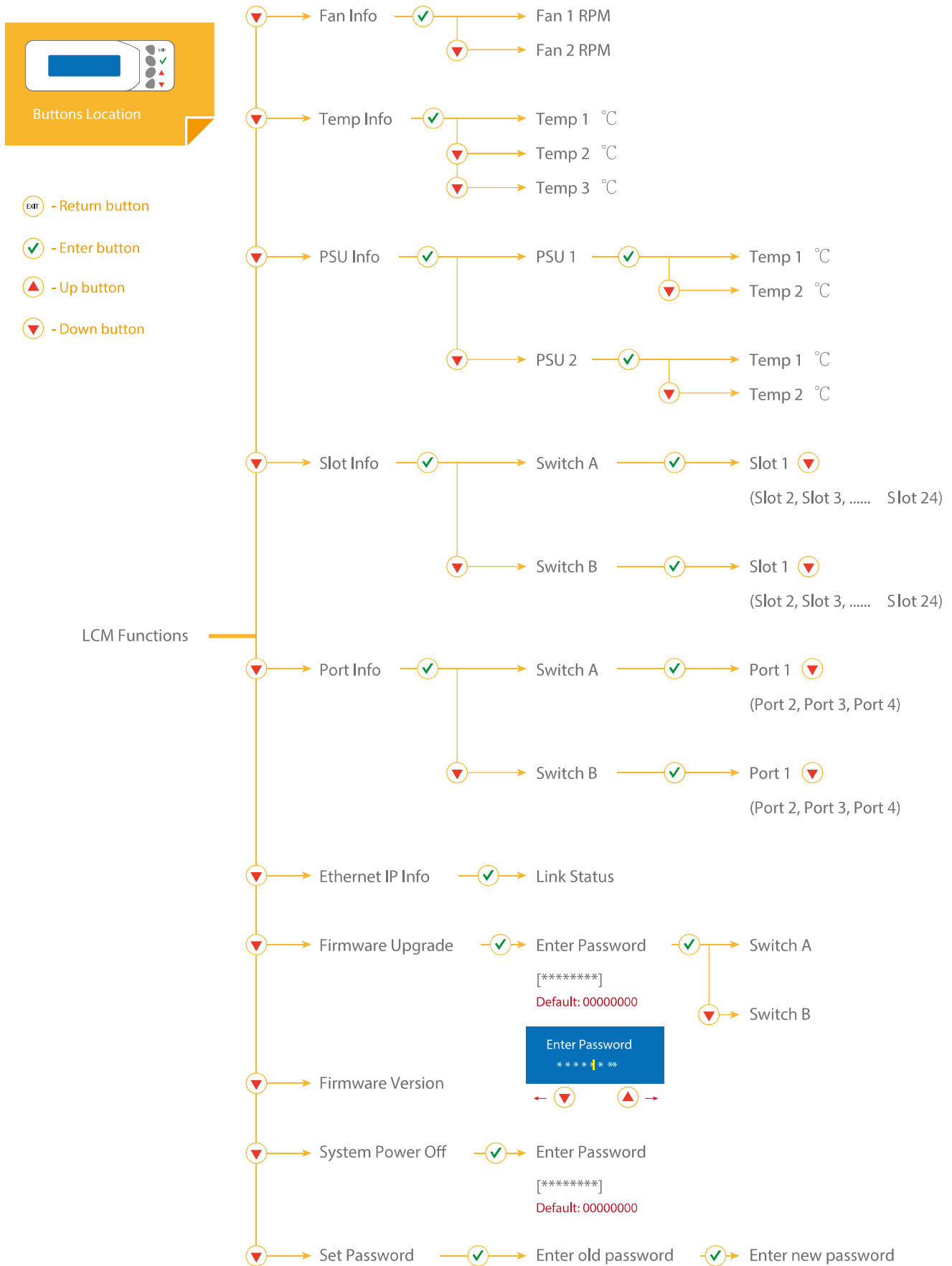




Use the Down/Up button to move downward/upward, browse the selection, and select the item. Press Enter button to confirm the selected item; press Return button to go back to the previous display of screen.

As a main item is selected, the related information or sub items will be shown under the main item.

The following flow is an expansion of LCD setup item hierarchical menu.



6. CLI Manager

Users can use the Command Line Interface (CLI) to manage the NVMe JBOF functions.

The PCI-ENC8G-24UM-2x2 NVMe JBOF utilizes the USB port as the serial port interface. Please use USB Type-A male to USB Type-B male cable to connect between PCI-ENC8G-24UM-2x2's switch controller and the computer/workstation; the operation system will detect a new USB-to-Serial COM Port. Please use this serial port to configure the switch controller.

USB port location :

Establish the Connection for the USB Port

The CLI function can be managed by using an ANSI/VT-100 compatible terminal emulation program. The program installation procedure must be done before proceeding to the CLI function. Whichever terminal emulation program is used, it must support the XMODEM file transfer protocol.

Start up VT100 Screen

By connecting a VT100 compatible terminal or a computer operating in an equivalent terminal emulation mode, all CLI administration functions can be executed by the VT100 terminal.

There are a wide variety of Terminal Emulation packages; most of them are very similar. The following setup procedure is an example from VT100 Terminal in Windows 10 operating system using the Tera Term tool.

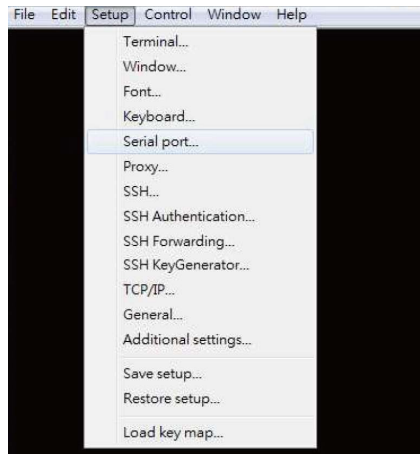
※ Notice : Tera Term is a VT100 Terminal Emulation program which is an open-source, free, software implemented , Terminal Emulator tool.

The Tera Term needs to be downloaded; here is the reference site:

<https://tera-term.en.lo4d.com/>

Step 1. Install and launch Tera Term program.

Step 2. To ensure proper communication between PCI-ENC8G-24UM-2x2 NVMe JBOF switch controller and the VT100 Terminal emulation, please configure the VT100 Terminal emulation settings to the values as below:



For "Port ", select COM3 .

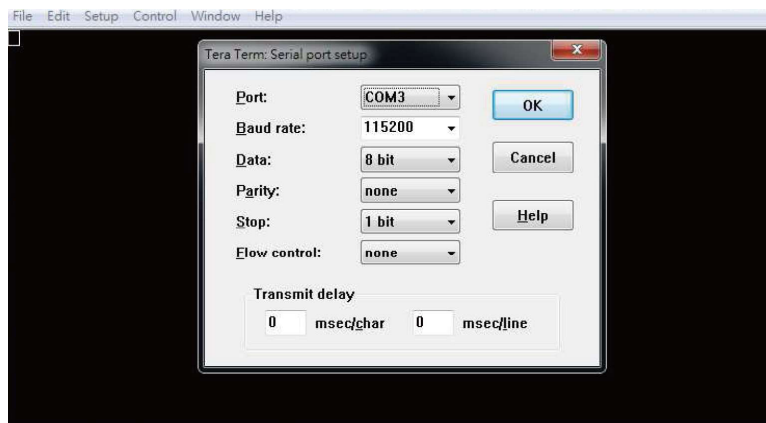
(COM3 is the example; actual COM number will depend on the COM port that is used on the host computer)

For "Baud rate ", select 115200 .

For "Data ", select 8 bit . For "Parity ", select none .

For "Stop ", select 1 bit . For "Flow control ", select none .

Click OK when the selection is finished.

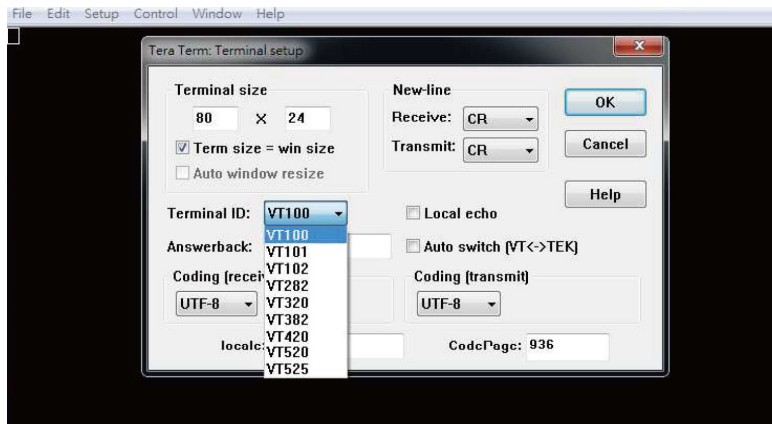


Step 3. Select the Terminal emulation type, please go to the Terminal section as shown below:



For "Terminal ID", select VT100.

Click OK when the selection is finished.



CLI Command

This section provides detailed information about PCI-ENC8G-24UM-2x2 NVMe JBOF

CLI functions.

Function	Command	Syntax
* Show list of commands	help	help [enter]
Ethernet IP configuration	eth	eth [enter]
Set Ethernet MAC address	setmac	setmac [enter]
Update PCIe switch firmware	fdl	fdl sw [enter]
Show environmental info (temps, FANs, voltages) on US_PM-2425 NVMe JBOF	lsd	lsd [enter]
Show FAN speed info on PCIe switch board	showfan	showfan [enter]
Control the buzzer of PCIe switch board	buz	buz [en] / [dis] / [on] / [off] [enter]
Control the power of each U.2 NVMe drive slot	ssdpwr	ssdpwr [Slot No.] [on o r off] [enter]
To reset each U.2 NVMe SSD	ssd_reset	ssd_reset [Slot No.] [enter]
Show link speed and link width info on specific U.2 NVMe drive slot	showslot	showslot [Slot No.] [enter]
* Show link speed and link width info on all U.2 NVMe drive slots and ports	showport	showport [-t] / [-b] [enter]
Set configuration mode for PCIe switch board	setmode	setmode [1] / [2] / [3] [enter]
* Show configuration mode for each PCIe switch board	showmode	showmode [enter]
Show internal temperature of PCIe switch	showtemp	showtemp [enter]
Bind any/all ports into switch group	bind	bind [Slot No.] [enter]
Unbind any/all ports from switch group	unbind	unbind [Slot No.] [enter]
Show binding info	showbind	showbind [Slot No.] [enter]
Show position information for PCIe switch board within US_PM-2425 NVMe JBOF	pos	pos [enter]
Show controller firmware version on PCIe switch board	ver	ver [enter]
To reset the PCIe switch board	reset	reset [enter]

* In addition to the above three commands (No. 1: help, No. 11: showport, and No. 13: showmode) which need connecting to only one switch controller board for getting the info, the rest thirteen commands require connecting to Both switch controller boards for gaining the information, firmware update, and configuration.

help command

This command provides an online table of contents, providing brief description of the supported command groups and built-in commands.

The help command can be used to get the detailed information about the CLI commands' summary.

Syntax: JBOF > help [enter]

```
COM11 - Tera Term VT
File Edit Setup Control Window Help

JBOF>help
JBOF Help Menu
eth :
  Set Ethernet IP Configuration.
  - Usage: eth [<ipaddr(*)> <subnet(*)> <gateway(*)>]

setmac :
  Set Ethernet MAC address.
  - Usage: setmac <xx:xx:xx:xx:xx:xx>

fdl :
  Xmodem download image.
  - Usage: fdl sw

lsd :
  Show environmental conditions information.
  - Usage: lsd

showfan :
  Show fan speed information.
  - Usage: showfan

buz :
  buzzer control.
  - Usage: buz [on|off|len|dis]

ssdpwr :
  slot power control.
  - Usage: ssdpwr [<slot(D)> <on|off>]
  - slot(D) : slot number should be 1 ~ 24

ssd_reset :
  Reset NVMe SSD.
  - Usage: ssd_reset <slot(D)>
  - slot(D) : slot number should be 1 ~ 24

showslot :
  Display link speed and link width information of specific NVMe drive slot.
  - Usage: showslot [slot(D)]
  - slot(D) : slot number should be 1 ~ 24

showport :
  Display link speed and link width information of all NVMe drive slot.
  - Usage: showport

setmode :
  Set mode of switch controller board.
  - Usage: setmode <mode(D)>
  - mode(D) : mode number should be 1 ~ 6

showmode :
  Show mode information of switch controller board in system.
  - Usage: showmode

showtemp :
  Show internal temperature of PCIe switch chip.
  - Usage: showtemp

bind :
  Bind switch logical and physical ports.
  - Usage: bind <slot(D)|all>
  - slot(D) : slot number should be 1 ~ 24

unbind :
  Unbind switch logical port from physical port.
  - Usage: unbind <slot(D)|all>
  - slot(D) : slot number should be 1 ~ 24

showbind :
  Show binding info.
  - Usage: showbind <slot(D)>
  - slot(D) : slot number should be 1 ~ 24

pos :
  Show position information of switch controller board in system.
  - Usage: pos

quit :
  Close telnet.
  - Usage: quit

ver :
  Show microcontroller firmware version.
  - Usage: ver

reset :
  System reset.
  - Usage: reset

JBOF>
```

eth command

Ethernet IP configuration.

Syntax: JBOF > eth [enter]

```
COM11 - Tera Term VT
File Edit Setup Control Window Help
JBOF>eth
=====
Physical Address . . . . . : 38-26-2B-00-01-48
Ethernet Link Status . . . . . : Up
IP Address . . . . . : 192.168.100.215
Subnet Mask . . . . . : 255.255.255.0
Gateway . . . . . : 0.0.0.0
MTU . . . . . : 1500
=====
JBOF>■
```

setmac command

Set Ethernet MAC (Media Access Control) address.

Syntax: JBOF > setmac [enter]

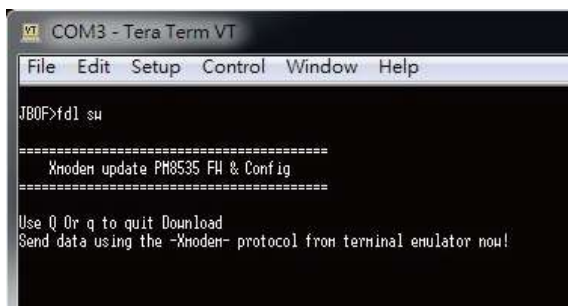
```
COM11 - Tera Term VT
File Edit Setup Control Window Help
JBOF>setmac 38:26:2B:00:01:48
MacAddress[0] 38
MacAddress[1] 26
MacAddress[2] 2B
MacAddress[3] 0
MacAddress[4] 1
MacAddress[5] 48
Set MAC - save configuration ok
JBOF>■
```

fdl command

Update PCIe switch firmware.

For this function, the US_PM-2425 NVMe JBOF must be connected to the host computer via PCI-ENC8G-24UM-2x2's rear USB Type-B port rather than its rear RJ-45 LAN port.

Syntax: JBOF > fdl sw [enter]

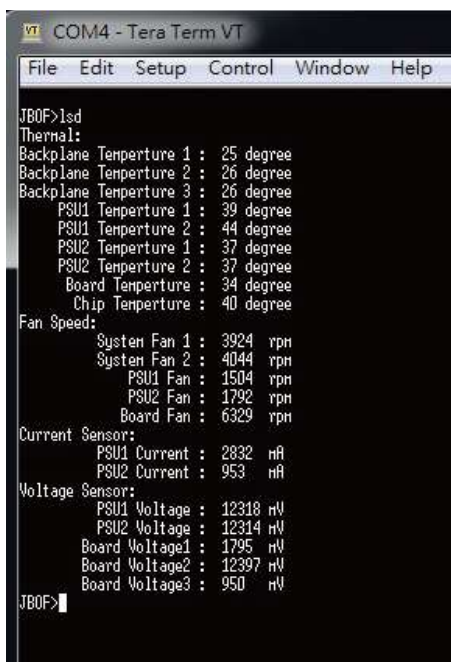


```
COM3 - Tera Term VT
File Edit Setup Control Window Help
JBOF>fdl sw
=====
Xnode update PM8535 FH & Config
=====
Use Q Or q to quit Download
Send data using the -Xnode- protocol from terminal emulator now!
```

lsd command

The command shows environmental information (temperatures, FANs, voltages) on PCI-ENC8G-24UM-2x2 NVMe JBOF.

Syntax: JBOF > lsd [enter]



```
COM4 - Tera Term VT
File Edit Setup Control Window Help
JBOF>lsd
Thermal:
Backplane Temperature 1 : 25 degree
Backplane Temperature 2 : 26 degree
Backplane Temperature 3 : 26 degree
PSU1 Temperature 1 : 39 degree
PSU1 Temperature 2 : 44 degree
PSU2 Temperature 1 : 37 degree
PSU2 Temperature 2 : 37 degree
Board Temperature : 34 degree
Chip Temperature : 40 degree
Fan Speed:
System Fan 1 : 3924 rpm
System Fan 2 : 4044 rpm
PSU1 Fan : 1504 rpm
PSU2 Fan : 1792 rpm
Board Fan : 6329 rpm
Current Sensor:
PSU1 Current : 2832 mA
PSU2 Current : 953 mA
Voltage Sensor:
PSU1 Voltage : 12318 mV
PSU2 Voltage : 12314 mV
Board Voltage1 : 1795 mV
Board Voltage2 : 12397 mV
Board Voltage3 : 950 mV
JBOF>
```


showfan command

The command shows FAN speed info on PCIe switch board.

Syntax: JBOF > showfan [enter]



```
VT COM4 - Tera Term VT
File Edit Setup Control Window Help
JBOF>showfan
switch fan speed: 6551 rpm
JBOF>
```

buz Command

The command is for controlling the buzzer on PCIe switch board.

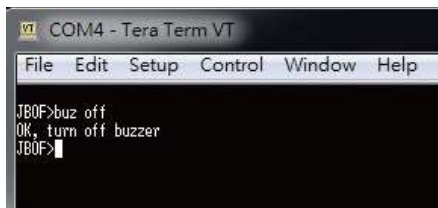
Syntax: JBOF > buz [en] / [dis] / [on] / [off] [enter]

[en]: enable the buzzer function for all time

[dis]: disable the buzzer function for all time

[on]: allow buzzer to beep for one time

[off]: mute the buzzer beeping



```
VT COM4 - Tera Term VT
File Edit Setup Control Window Help
JBOF>buz off
OK, turn off buzzer
JBOF>
```

ssdpwr command

The command is for controlling the power of each U.2 NVMe drive slot.

Syntax: JBOF > ssdpwr [Slot No.] [on or off] [enter]

A screenshot of a terminal window titled "COM4 - Tera Term VT". The window has a menu bar with "File", "Edit", "Setup", "Control", "Window", and "Help". The terminal text shows the command "JBOF>ssdpwr 3 off" being entered, followed by the system response "ssdpwr: turn off slot 3", and then the prompt "JBOF>" is shown again.

```
VT COM4 - Tera Term VT
File Edit Setup Control Window Help
JBOF>ssdpwr 3 off
ssdpwr: turn off slot 3
JBOF>
```

ssd_reset command

To reset each U.2 NVMe SSD.

Syntax: JBOF > ssd_reset [Slot No.] [enter]

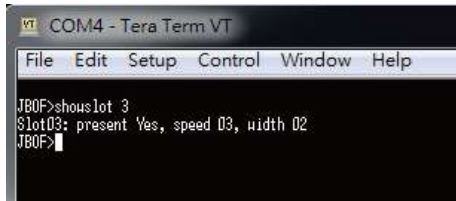
A screenshot of a terminal window titled "COM4 - Tera Term VT". The window has a menu bar with "File", "Edit", "Setup", "Control", "Window", and "Help". The terminal text shows the command "JBOF>ssd_reset 3" being entered, followed by the system response "Reset \$lot 3 Success", and then the prompt "JBOF>" is shown again with a cursor.

```
VT COM4 - Tera Term VT
File Edit Setup Control Window Help
JBOF>ssd_reset 3
Reset $lot 3 Success
JBOF>
```

showslot command

The command shows link speed and link width information on specific U.2 NVMe drive slot.

Syntax: JBOF > showslot [Slot No.] [enter]



```
VT COM4 - Tera Term VT
File Edit Setup Control Window Help
JBOF>showslot 3
Slot03: present Yes, speed 03, width 02
JBOF>
```

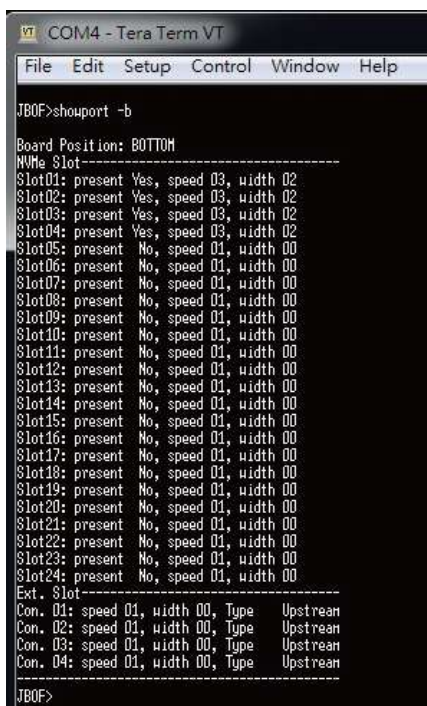
showport command

The command shows link speed and link width information on all U.2 NVMe drive slots and ports.

Syntax: JBOF > showport [-t] / [-b] [enter]

[-t]: top switch controller board

[-b]: bottom switch controller board



```
VT COM4 - Tera Term VT
File Edit Setup Control Window Help
JBOF>showport -b
Board Position: BOTTOM
NVMe Slot-----
Slot01: present Yes, speed 03, width 02
Slot02: present Yes, speed 03, width 02
Slot03: present Yes, speed 03, width 02
Slot04: present Yes, speed 03, width 02
Slot05: present No, speed 01, width 00
Slot06: present No, speed 01, width 00
Slot07: present No, speed 01, width 00
Slot08: present No, speed 01, width 00
Slot09: present No, speed 01, width 00
Slot10: present No, speed 01, width 00
Slot11: present No, speed 01, width 00
Slot12: present No, speed 01, width 00
Slot13: present No, speed 01, width 00
Slot14: present No, speed 01, width 00
Slot15: present No, speed 01, width 00
Slot16: present No, speed 01, width 00
Slot17: present No, speed 01, width 00
Slot18: present No, speed 01, width 00
Slot19: present No, speed 01, width 00
Slot20: present No, speed 01, width 00
Slot21: present No, speed 01, width 00
Slot22: present No, speed 01, width 00
Slot23: present No, speed 01, width 00
Slot24: present No, speed 01, width 00
Ext. Slot-----
Con. 01: speed 01, width 00, Type Upstream
Con. 02: speed 01, width 00, Type Upstream
Con. 03: speed 01, width 00, Type Upstream
Con. 04: speed 01, width 00, Type Upstream
-----
JBOF>
```

setmode command

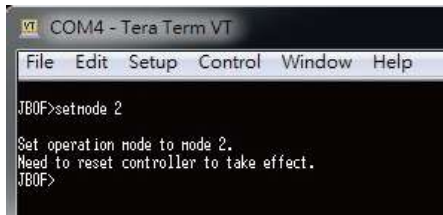
The command is for setting configuration mode for PCIe switch board.

Syntax: JBOF > setmode [1] / [2] / [3] [enter]

[1]: set for mode 1

[2]: set for mode 2

[3]: set for mode 3

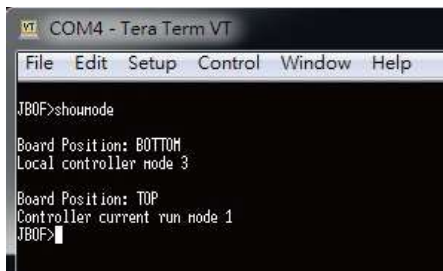


```
VT COM4 - Tera Term VT
File Edit Setup Control Window Help
JBOF>setmode 2
Set operation mode to mode 2.
Need to reset controller to take effect.
JBOF>
```

showmode command

The command shows configuration mode for each PCIe switch board.

Syntax: JBOF > showmode [enter]

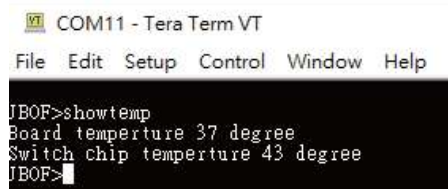


```
VT COM4 - Tera Term VT
File Edit Setup Control Window Help
JBOF>showmode
Board Position: BOTTOM
Local controller node 3
Board Position: TOP
Controller current run mode 1
JBOF>
```

showtemp command

The command show internal temperature of PCIe switch.

Syntax: JBOF > showtemp [enter]



```
COM11 - Tera Term VT
File Edit Setup Control Window Help
JBOF>showtemp
Board temperture 37 degree
Switch chip temperture 43 degree
JBOF>
```

bind command ([Applies in Mode 4 only](#))

The command bind any/all ports into switch group.

Syntax: JBOF > bind [Slot No.] [enter]



```
COM11 - Tera Term VT
File Edit Setup Control Window Help
JBOF>unbind 1
UnBind slot 1 success.
JBOF>
```

unbind command ([Applies in Mode 4 only](#))

The command unbind any/all ports from switch group.

Syntax: JBOF > unbind [Slot No.] [enter]

```
VT COM11 - Tera Term VT
File Edit Setup Control Window Help
JBOF>unbind 1
UnBind slot 1 success.
JBOF>
```

showbind command ([Applies in Mode 4 only](#))

The command show binding info.

Syntax: JBOF > unbind [Slot No.] [enter]

```
VT COM11 - Tera Term VT
File Edit Setup Control Window Help
JBOF>showbind 1
Slot 1: partition = 0, physical = 16, logical = 1, status = Bound.
JBOF>
```

pos command

The command shows position information for switch controller board within PCI-ENC8G-24UM-2x2 NVMe JBOF.

Syntax: JBOF > pos [enter]

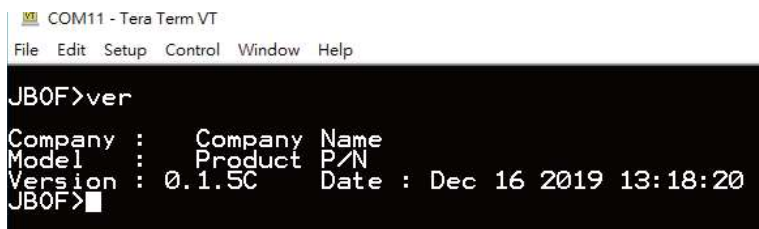
A screenshot of a terminal window titled 'COM4 - Tera Term VT'. The window has a menu bar with 'File', 'Edit', 'Setup', 'Control', 'Window', and 'Help'. The terminal shows the command 'JBOF>pos' and the output 'Board Position: BOTTOM'. The prompt 'JBOF>' is visible on the next line.

```
COM4 - Tera Term VT
File Edit Setup Control Window Help
JBOF>pos
Board Position: BOTTOM
JBOF>
```

ver command

The command shows controller firmware version on PCIe switch board.

Syntax: JBOF > ver [enter]

A screenshot of a terminal window titled 'COM11 - Tera Term VT'. The window has a menu bar with 'File', 'Edit', 'Setup', 'Control', 'Window', and 'Help'. The terminal shows the command 'JBOF>ver' and the output: 'Company : Company Name', 'Model : Product P/N', and 'Version : 0.1.5C Date : Dec 16 2019 13:18:20'. The prompt 'JBOF>' is visible on the next line.

```
COM11 - Tera Term VT
File Edit Setup Control Window Help
JBOF>ver
Company : Company Name
Model : Product P/N
Version : 0.1.5C Date : Dec 16 2019 13:18:20
JBOF>
```

reset command

To reset the PCIe switch board.

Syntax: JBOF > reset [enter]



If you have any questions, please contact your regional distributor,
or Serial Cables, LLC.



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