RSC-4H1

Rackmount Chassis
User's Manual

UM_RSC-4H1_v1.4_081126

Table of Contents

Document Release History

Release Date	Version	Update Content
September, 2022	1	User's Manual release to public.
September, 2023	1.1	Update specification content.
November, 2023	1.2	Update BP content-section 3.2.2.4
October, 2024	1.3	Add 3.5" HDD removal info.
August, 2026	1.4	Update 2D images and BP content.

Preface

Copyright

Trademarks

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Changes

The material in this document is for information purposes only and is subject to change without notice.

Warning

1. A shielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used.
2. Use only shielded cables to connect I/O devices to this equipment.
3. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Disclaimer

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Instruction Symbols

Special attention should be given to the instruction symbols below.

NOTE	This symbol indicates that there is an explanatory or supplementary instruction.
CAUTION	This symbol denotes possible hardware impairment. Upmost precaution must be taken to prevent serious harware damage.
WARNING	This symbol serves as a warning alert for potential body injury. The user may suffer possible injury from disregard or lack of attention.

Safety Instructions

Before you commence, please attentively read the following important discretions below. All cautions and warnings on the equipment or in the manuals should be circumspectly noted and reviewed.

Always ground yourself to prevent static electricity.
請全程接地，以防止靜電。
请全程接地，以防止静电。
Всегда заземляйте себя, чтобы избежать статического электричества.
Aard jezelf altijd om statische elektriciteit te voorkomen.

- Firmly ground yourself at all times when installing or assembling the internal components of the server. Most of electronic components in the server are highly sensitive to electrical static discharge.
- Use a solid grounding wrist strap and distintively place all electronic components in static-shielded devices to prevent static. Grounding wrist straps can be purchased in any electronic supply store.
- Confirm that the power source is turned off and then disconnect the power cords from your system before performing any type of installation or manual servicing. A sudden surge of power could serverly damage the sensitive electronic components.
- Do not precipitously open the system's top cover. If you must open the cover for maintenance purposes, only a trained technician should be allowed to proceed this action. Integrated circuits on computer boards are highly sensitive to static electricity. Before operating a board or integrated circuit, touch an unpainted portion of the system unit chassis for a couple of seconds to discharge any static electricity on your body.

Place the server in a stable environment.
請將伺服器放置在穩定的環境中。
请将伺服器放置在稳定的环境中。
Поместите сервер в стабильную среду.
Plaats de server in een stabiele omgeving.

- Place this equipment on a stable surface when installing. A small mild drop or fall could cause fatal injury to both the equipment and the person handling the equipment.
- Please keep this equipment away from humidity to prevent vast rust and disintergration.
- Carefully and accurately mount the equipment into the rack. Uneven mechanical loading may lead to hazadous consequences.
- This equipment is to be installed for operation in an environment with maximum ambient temperature below 35°C.
- Review the environment before performing any installation or servicing. Keep the equipment away from hazardous and uneven grounds.
- This server must be installed only in Restricted Acess Locations.

Handle equipment with care.
請謹慎操作設備。
请谨慎操作设备。
Обращайтесь с оборудованием осторожно.
Behandel de apparatuur voorzichtig.

- Do not cover the openings of the system. The openings on the system are for air convection, which intentionally protect the equipment from overheating.
- Never pour any liquid into ventilation openings of the system. This could cause catastrophic fire or electrical shock.

- Ensure that the voltage of the power source is within the specification on the label when connecting the equipment to the power outlet. The current load and output power of loads must be within the specification.
- This equipment must be firmly connected to reliable grounding before usage. Pay special attention to power supplied other than direct connections, e.g. using of power strips.
- Place the power cord out of the way of foot traffic. Do not place anything over the power cord. The power cord must be rated for the product, voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product.

Pay attention to hardware maintenance.
注意硬體維護。
注意硬体维护。
Обратите внимание на обслуживание оборудования.
Besteed aandacht aan hardware-onderhoud.

- If the equipment is not used for a long time, disconnect the equipment from mains to avoid being damaged by transient over-voltage.
- Module and drive bays must not be empty. They must have a dummy cover.
- Never open the equipment without professional assistence. For safety reasons, only qualified service personnel should open the equipment.
- If one of the following situations arise, the equipment should be checked and tested by service personnel:
  1. The power cord or plug is damaged.
  2. Liquid has penetrated the equipment.
  3. The equipment has been exposed to moisture.
  4. The equipment does not work well or will not work according to its user manual.
  5. The equipment has been dropped and/or damaged.
  6. The equipment has obvious signs of breakage.
  7. Please disconnect this equipment from the AC outlet before cleaning. Do not use liquid or detergent for cleaning. The use of a moisture sheet or cloth is recommended for cleaning.

CAUTION
The equipment intended for installation should be placed in Restricted Access Location.

CAUTION
There will be a risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions. After performing any installation or servicing, make sure the enclosure is correct in position before turning on the power.

CAUTION
This unit may have more than one power supply. Disconnect all power sources before maintenance to avoid electric shock.

About This Manual

Thank you for selecting and purchasing RSC-4H1

This user's manual is provided for professional technicians to perform easy hardware setup, basic system configurations, and quick software startup. This document pellucidly presents a brief overview of the product design, device installation, and firmware settings for RSC-4H1 Rackmount Chassis. For the latest version of this user's manual, please refer to the AIC® website: RSC-4H1 is a flexible rackmount storage chassis with tool-less design. This product supports hot swappable HDDs and easy swap fans. For more information about our product, please visit our website at https://www.aicipc.com/en/productdetail/51347.

Chapter 1 Product Features

This chapter delivers the overall layout of the product, including the fundamental components of the rackmount chassis, design specifications, and noteworthy features.

Chapter 2 Hardware Setup

This chapter displays an easy installation guide for assembling the chassis. Utmost caution for proceeding to set up the hardware is highly advised.

Chapter 3 Hardware Specifications

This chapter elaborates the overall layout of the hardware design, including multifarious connectors, jumpers, and LED descriptions.

Chapter 4 Technical Support

For more information or suggestion, please contact the nearest AIC® corporation representative in your district or visit the AIC® website: http://www.aicipc.com/en/index. It is our greatest honor to provide the best service for our customers.

Chapter 1. Product Features

RSC-4H1 is a flexible rackmount storage chassis with tool-less design. This product supports hot swappable disk drives, and four hot swap fans. For more information about our product, please visit our website at http://www.aicipc.com/en/index.

Before removing the subsystem from the shipping carton, visually inspect the physical condition of the shipping carton. Exterior damage to the shipping carton may indicate that the contents of the carton are damaged. If any damage is found, do not remove the components; contact the dealer where the subsystem was purchased for further instructions. Before continuing, first unpack the subsystem and verify that the number of components in the shipping carton is accurate and in good condition.

1.1 Components

This product contains the components listed below. Please confirm the number and the condition of the components before installation.

- System barebone (includes power supply, fan & hard disk drive tray)
- Power cord (vary per region, optional)
- Slide rail x 1 set (optional)

Pre-installed into the system		Number
option	800W 2+2 redundant PSU PMBus 1.2 80+ Platinum or Titanium	2+2
	1600W 1+1 redundant PSU PMBus 1.2 80+ Platinum or Titanium	1+1
✓	3.5-inch internal hot swap drive bays	60
✓	2.5-inch external hot swap drive bays	2/4/6/8
✓	Middle: 4 x 80x38mm hot swap fans	4
Accessory Item		**Number**
✓	12 x 2.5-inch HDD bottom screw : F(+),M3X4L,NI	48
✓	3.5-inch HDD : F(+),632X6L,NI	125
✓	Hex standoff: M3X6.3L-6#32X4L	12
✓	Motherboard screw: RW(+),M3X4L,NI	20
✓	Front board EPE foam: 576*524*140H	2
✓	Rear board EPE foam: 576*524*140H	1
✓	Front tray EPE foam: 576*524*220H	1
✓	Rear tray EPE foam: 576*524*220H	1
✓	EPE PAD: 325*145*30T	2
✓	35-inch tool-less slide rail assembly	1
option	Power cord	vary per region
option	Cable Management Kit	1

Product specifications and features are subject to change without prior notice.

1.2 Specifications

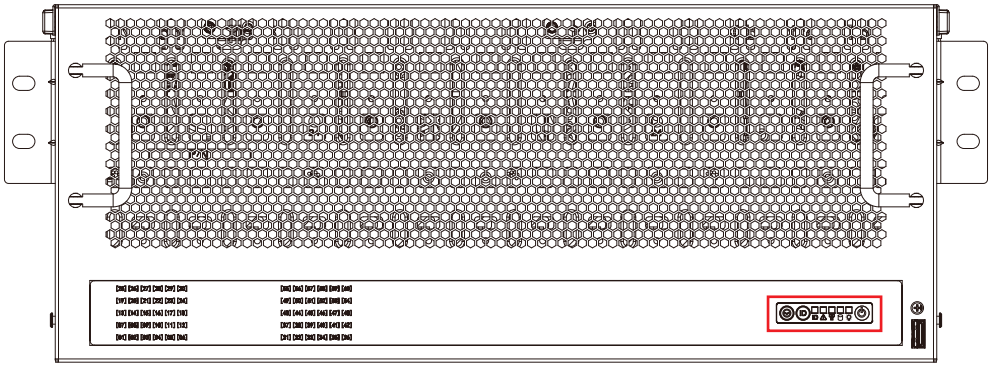
Dimensions (W x D x H)	mm : 434 x 853 x 176		
	inches : 17.1 x 33.5 x 6. 9		
Industry Standard	EIA-RS310D		
Material	Heavy-duty preplated SGCC cold-rolled steel		
Color	Front Panel : Black		
Cooling	Standard	Middle : 4 x 80x38mm hot swap fans	
	Option	Up to 2 x 60x38mm easy swap fans	
Power Supply	Options	• 800W 2+2 redundant • 1600W 1+1 redundant	
Expansion Slots	7 full height		
Front Panel	System power on/off, System reset		
LED Indicators	Power, ID, Drive		
System Board	12"(W) x 13"(D) E-ATX/SSI EEB 3.6 compliant MB		
Drive Bays	External	2.5" hot swap	2/4/6/8
	Internal	3.5" hot swap	60

Backplanes	• 2 x 30-port 12G SAS backplanes with 40-PHY expander • 2 x 30-port 24G SAS backplanes with 40-PHY expander (TBD)	
Storage Temperature	0ºC(32ºF) ~ 50ºC(122ºF)	
Humidity	5%~95% non-condensing	
Gross Weight	(w/ PSU & Rail) (excluding pallet)	kgs : 45
		lbs : 99.2
Packaging Dimensions	(W x D x H)	mm : 586 x 1110 x 400
		inches : 23 x 43.7 x 15.7
Cubic Feet	9.25	
Container Load Quantity	20'	100
	40'	212
	40' H	255
Mounting	Standard	37" tool-less slide rail
	Option	Cable Management Kit

- High-density storage server chassis
- Tool-less design for easy maintenance
  - Tool-less top cover
  - Tool-less drive backplane sliding mechanism
- 60 tool-less top-loading 3.5" drive trays with built-in light pipe for drive status LED
- Hot swap cooling fans and 80+ redundant power supply
- Supports up to 2/4/6/8 x 2.5" hot swap drives for OS
- Flexible Motherboard plate design for E-ATX form factor in market

1.3 Feature

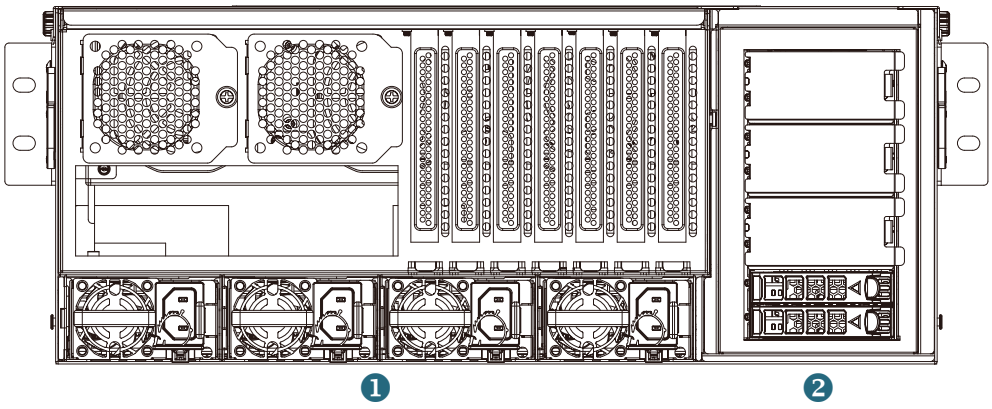
Front Panel



System Button and LED Indicator

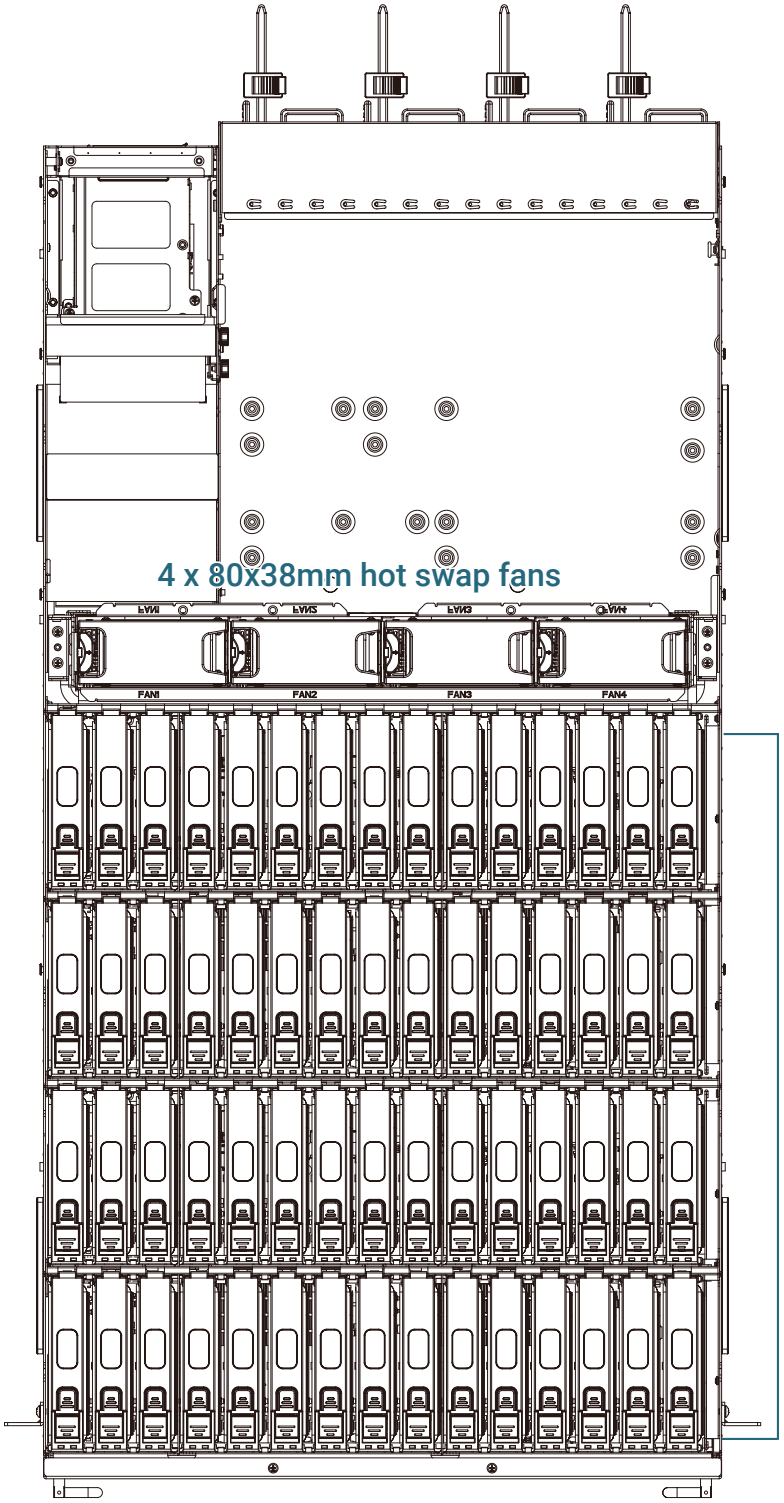
Item	Description	Item	Description
	Power Button		System ID LED
	Power Status LED		System Reset Button
	Drive Activity LED		LAN LED
	System Alert LED		

Option 1 Rear Panel with SATA PSU*4



Item	Content	Description
1	PSU socket	800W 2+2 redundant PSU PMBus 1.2 80+ Platinum or Titanium
2	Disk drive tray	2x 2.5” hot swap disk drive bay

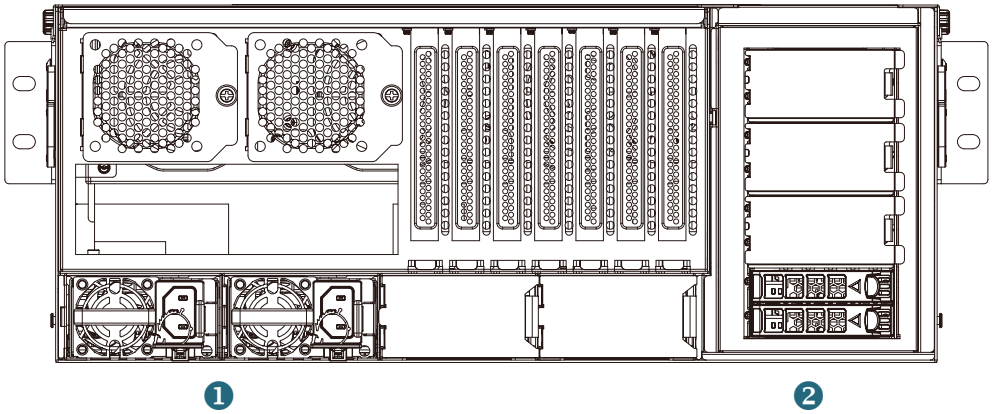
Top View



NOTE
Motherboard is not included in this product.

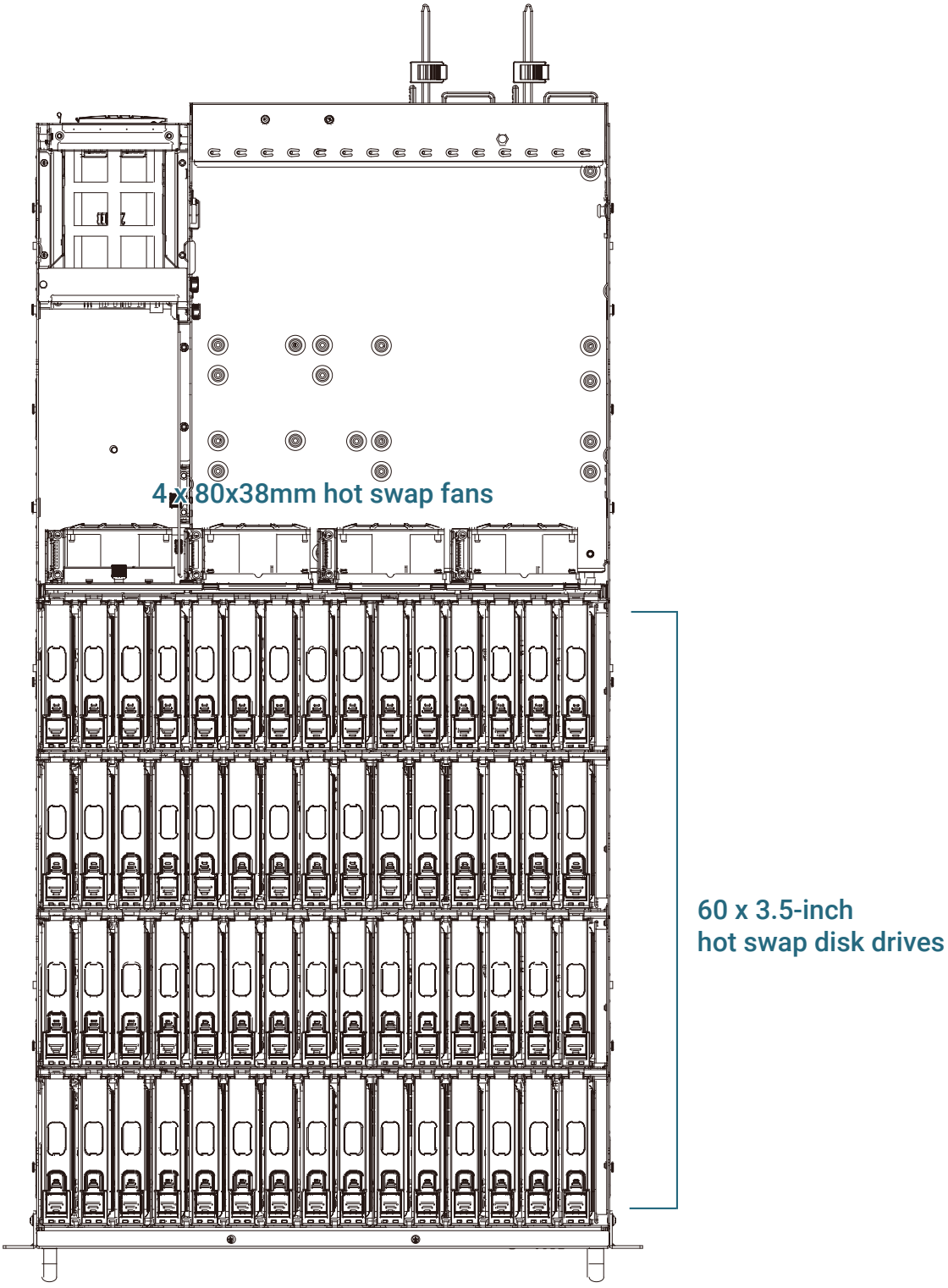
Option 2 Rear Panel with SATA

PSU*2



Item	Content	Description
1	PSU socket	1600W 1+1 redundant PSU PMBus 1.2 80+ Platinum or Titanium
2	Disk drive tray	2x 2.5” hot swap disk drive bay

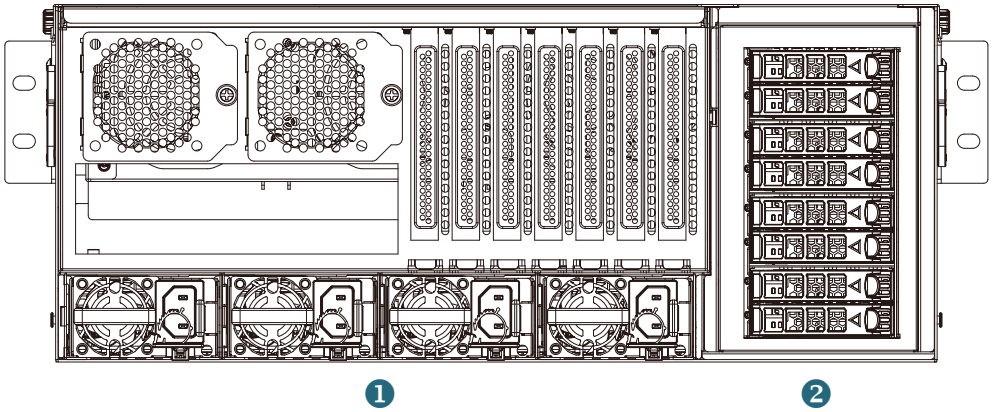
Top View



NOTE
Motherboard is not included in this product.

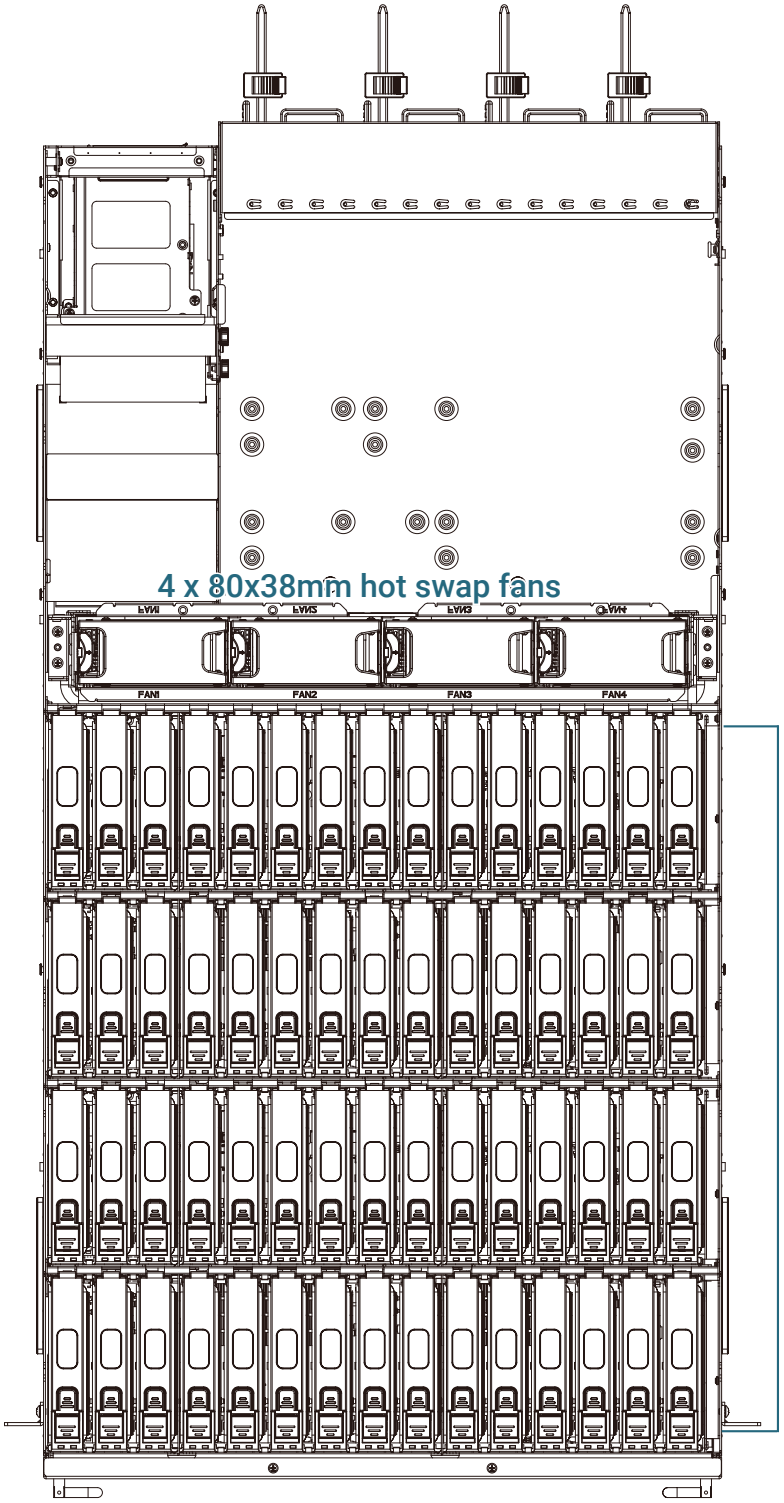
Option 3 Rear Panel with NVMe

PSU*4



Item	Content	Description
1	PSU socket	800W 2+2 redundant PSU PMBus 1.2 80+ Platinum or Titanium
2	Disk drive tray	8x 2.5” hot swap disk drive bay

Top View

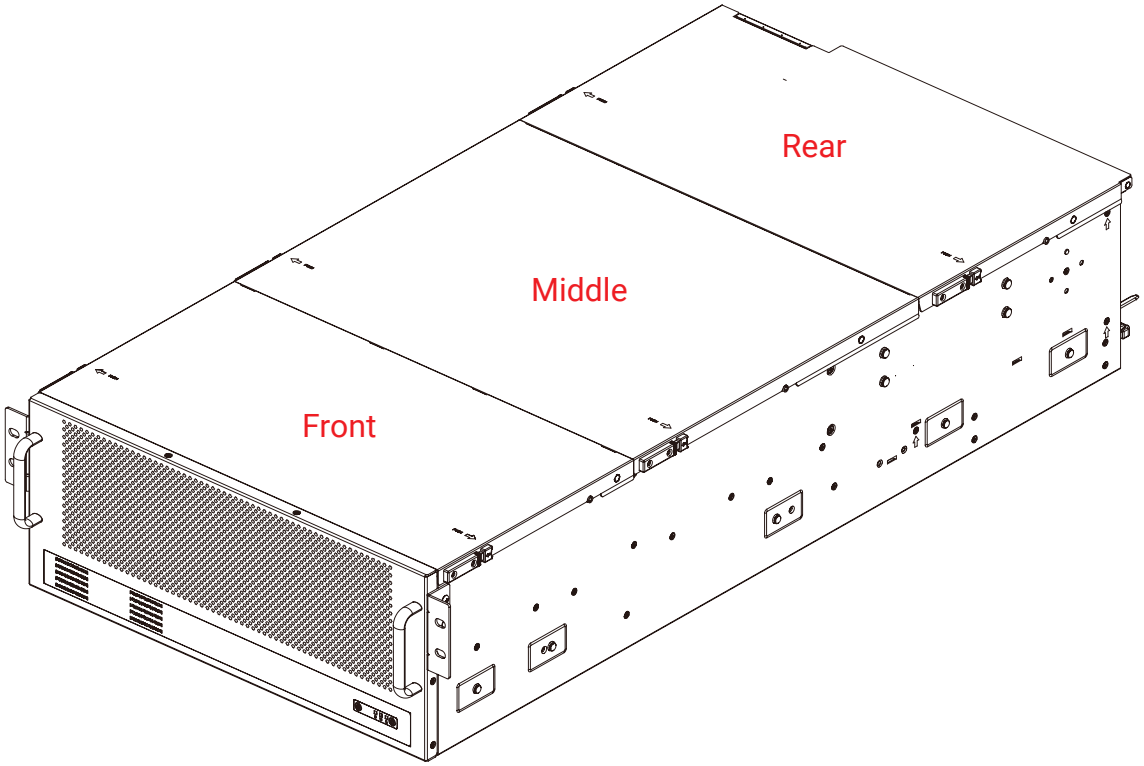


NOTE
Motherboard is not included in this product.

Chapter 2. Hardware Setup

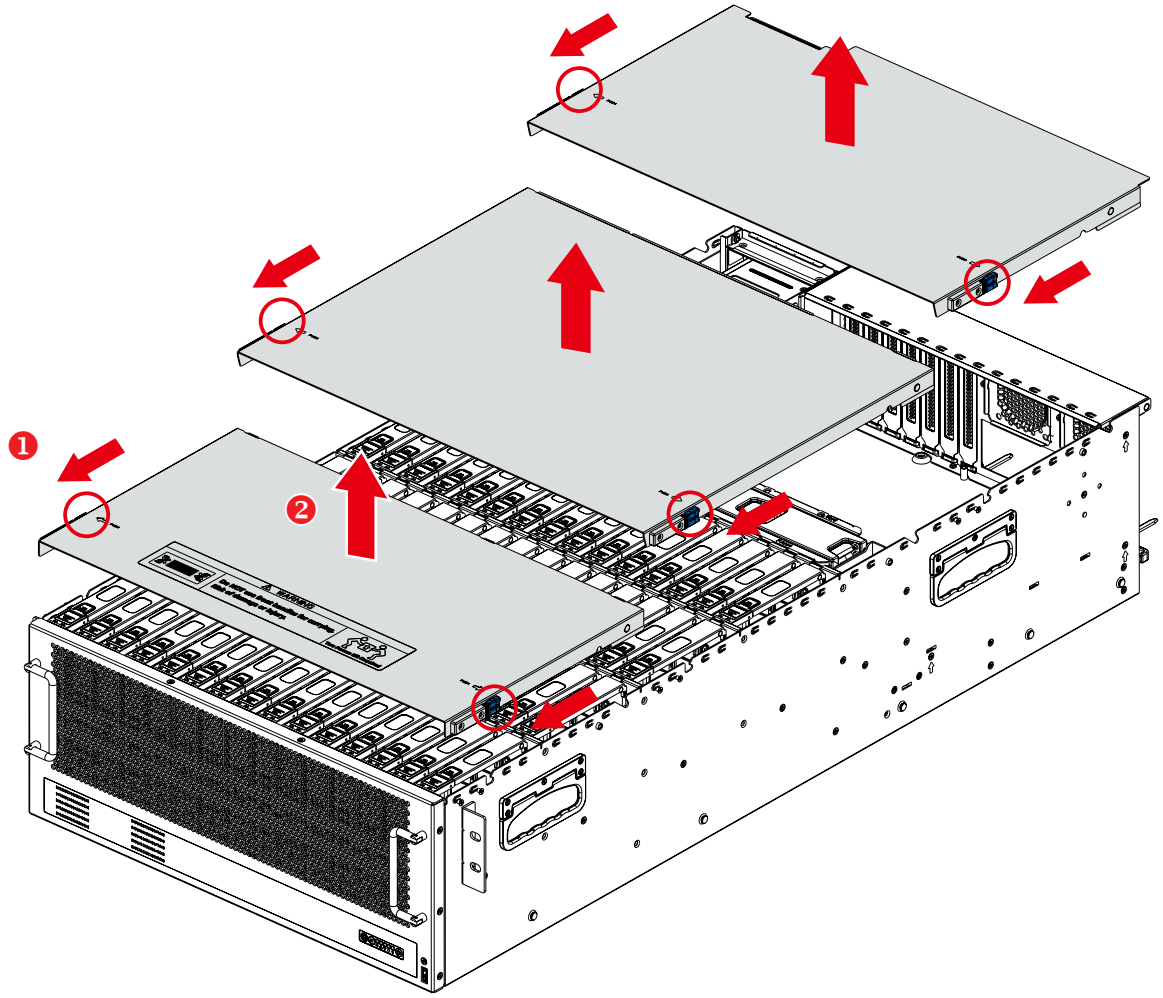
2.1 Top Cover

The server consists of three covers: cover front, middle, and rear cover.



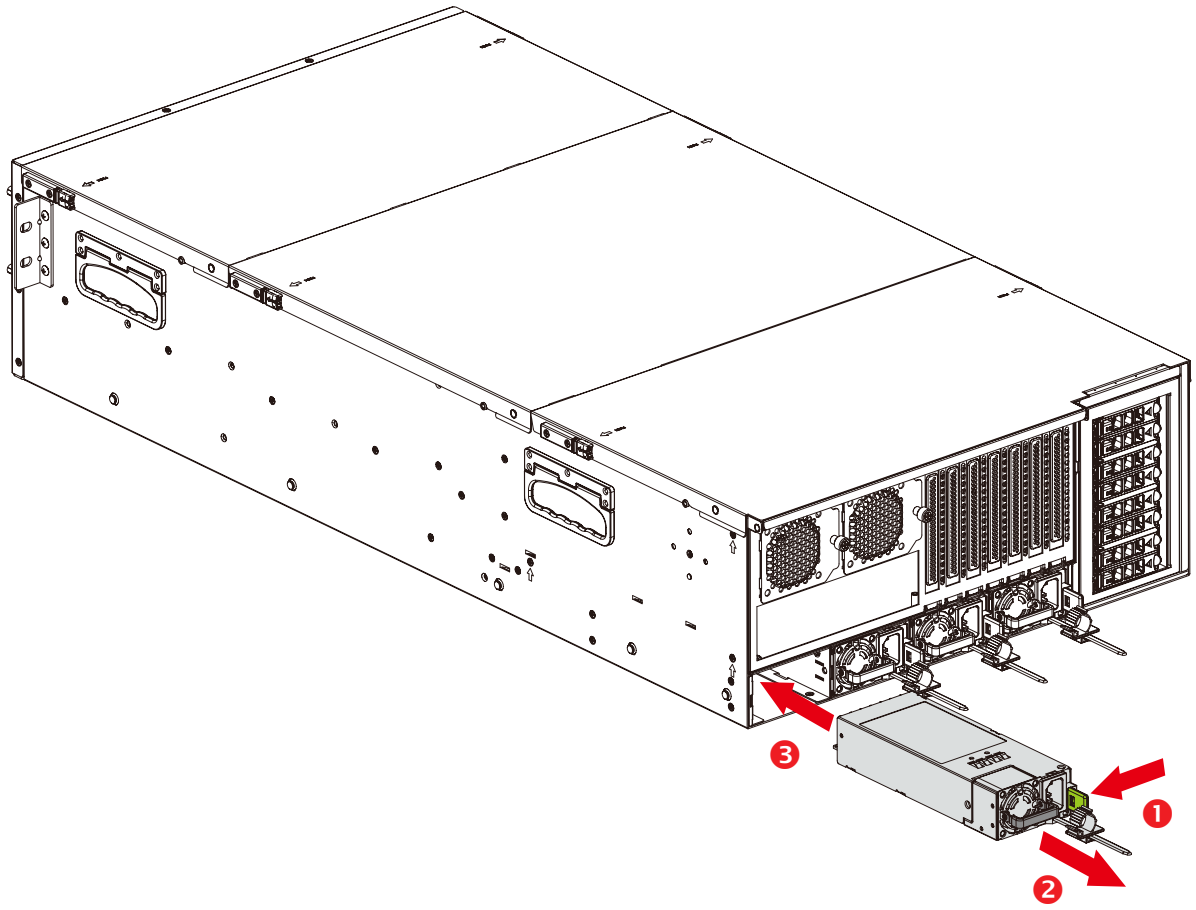
Front/Middle/Rear Cover

① Press the eject button on both sides of the top cover and simultaneously push the cover towards the front panel.
② Lift upward to remove the cover.



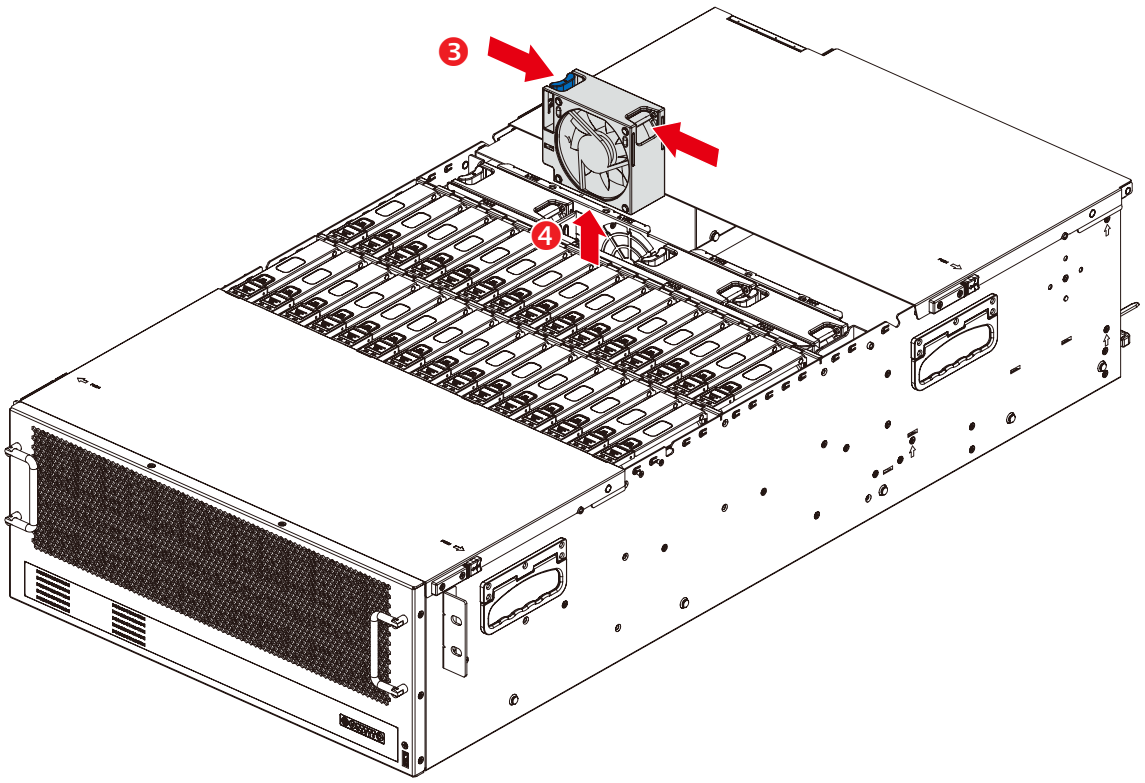
2.2 Power Supply Unit Module

① Press the ejector to release the module.
② Pull the handle to remove the module out of the chassis.
③ Push the replaced module into the chassis to complete installation. Ensure that the module is accurately inserted and locked into the chassis.



2.3 Fan Module

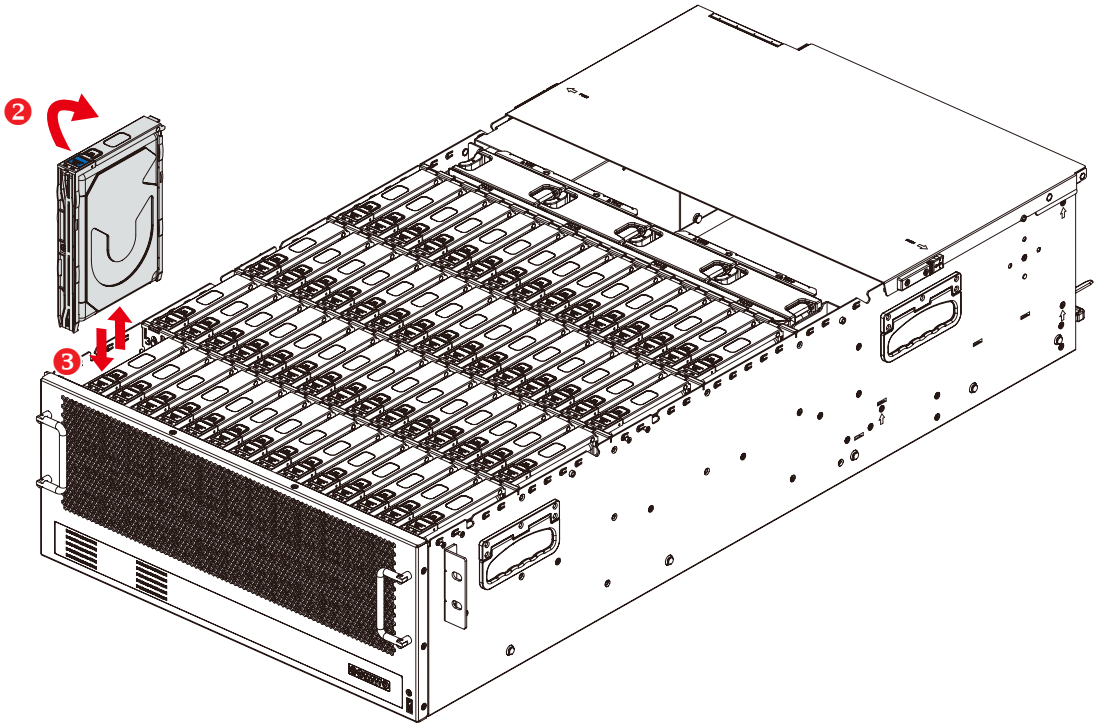
① Remove the top cover of the chassis. Please refer to Section 2.1 Top Cover.
② Unplug the fan cables and connectors from the server board.
③ Press the buckle (marked in blue as demonstrated) and hold the fan module on the both side.
④ Pull the fan out of the chassis



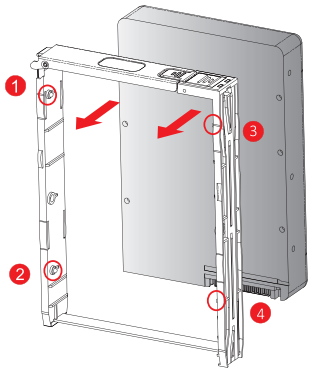
2.4 Hard Disk Drive

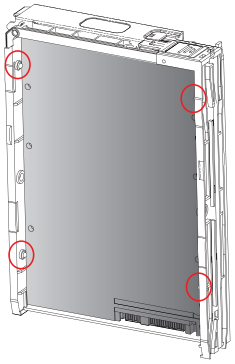
2.4.1 Disk Drive: 3.5-inch

① Press the ejector on the tray to release the handle.
② Pull the tray handle completely outward.
③ Pull the drive tray out of the chassis.



④ Match the dimples on the HDD with the tool-less tray.
⑤ Align the HDD with the tray by placing it against each other.
⑥ Insert the HDD into the tool-less tray in the suggested order above. Make certain to attach the side of the tray with the larger dimples to the HDD first and the side with the smaller dimples last for easier installation.

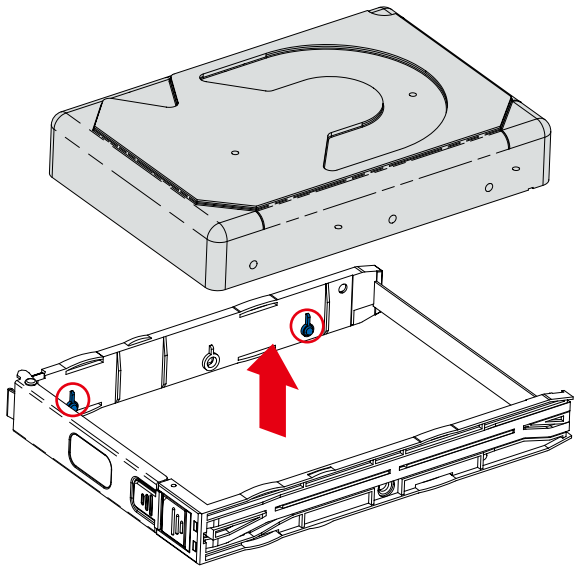




⑦ Complete the installation. Pull the sides of the tray to remove the HDD. Make certain to pull the tray with smaller dimples first away from the HDD and the larger dimples last for easier removal.

Remove the 3.5-inch HDD from the tray

Pull the sides of the tray to remove the HDD. Make certain to pull the tray with smaller dimples first away from the HDD and the larger dimples last for easier removal.



NOTE

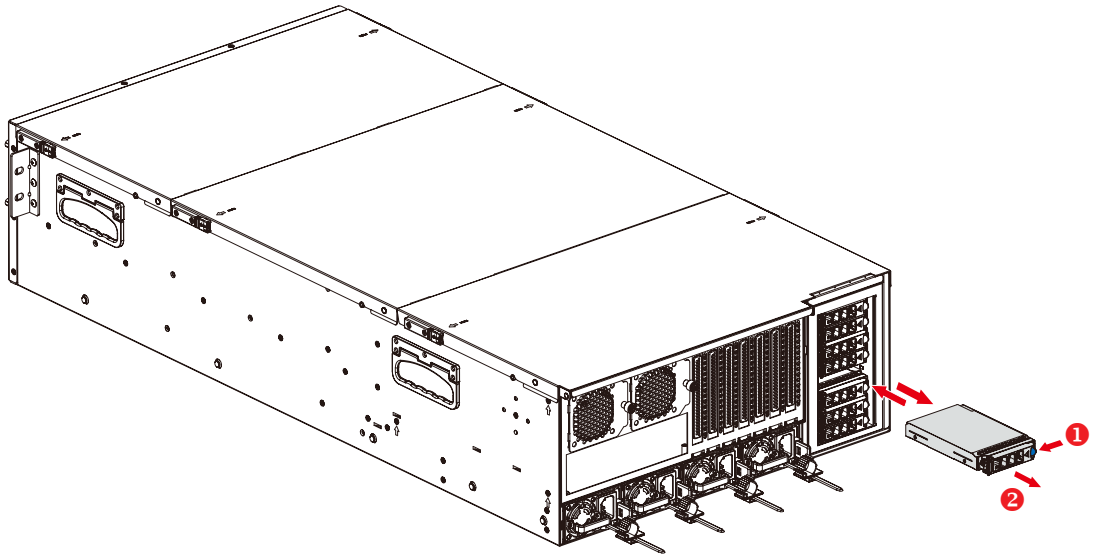
When you remove the HDD from the tray, please push out the disk only from one direction to avoid causing damage.

According to the image display above, the dimples should be on the bottom of the tray.

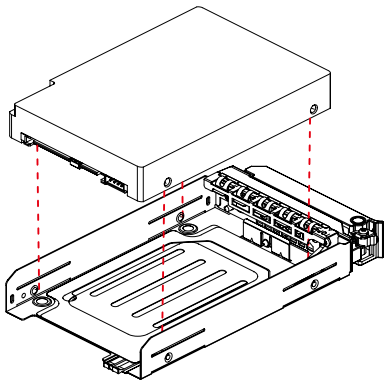
2.4.1 Disk Drive: 2.5-inch (NVMe/SATA)

① Press the ejector on the tray to release the handle.
② Pull the tray handle completely outward.
③ Pull the drive tray out of the chassis.

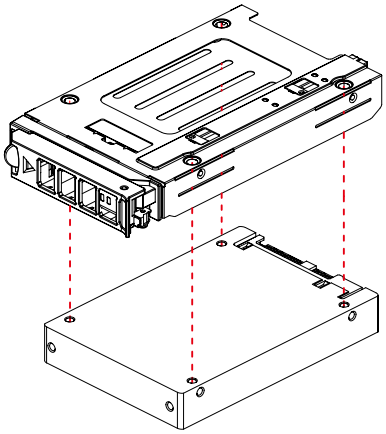
NVMEx6 + SATAx2



④ Insert the hard disk drive into the tray. Ensure that the dimples on the tray match the hard disk drive. For additional assurance, fasten the screws x 4 on the drive tray to secure the hard disk drive.



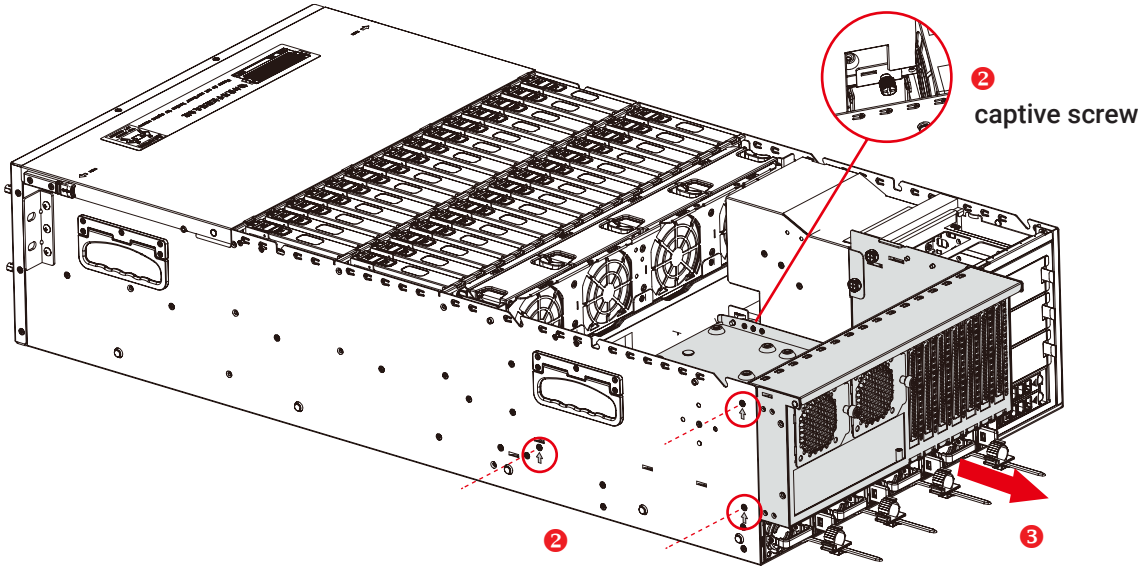
Dimple location

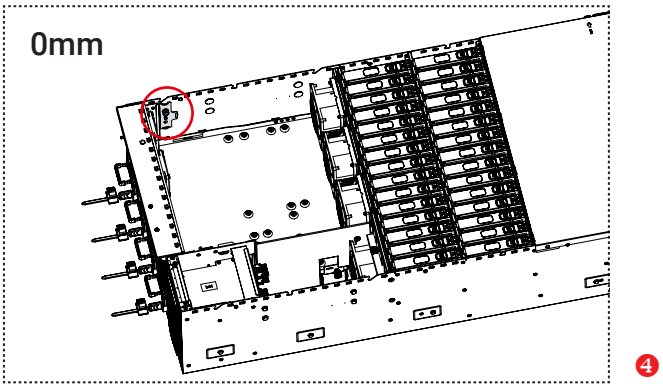


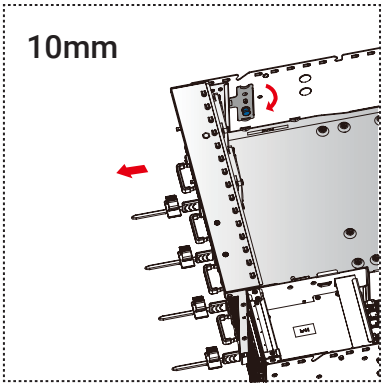
Screw location

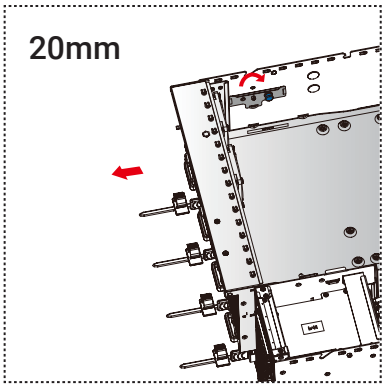
2.5 Easy Maintenance

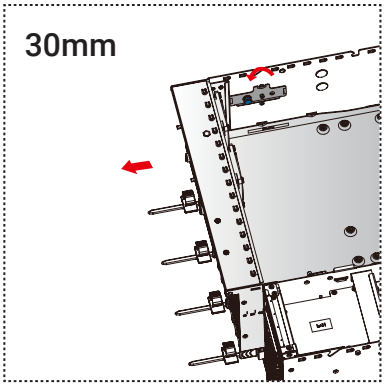
① Remove the rear top cover of the chassis. Please refer to Section 2.1 Top Cover.
② Dislodge the screws and loosen the captive screw to release the motherboard tray.
③ Pull the motherboard tray outward.
④ Pull the plunger and rotate positioning bracket. Change the direction of the positioning bracket to stable the motherboard tray in three different length (10/20/30mm).











2.6 Slide Rail

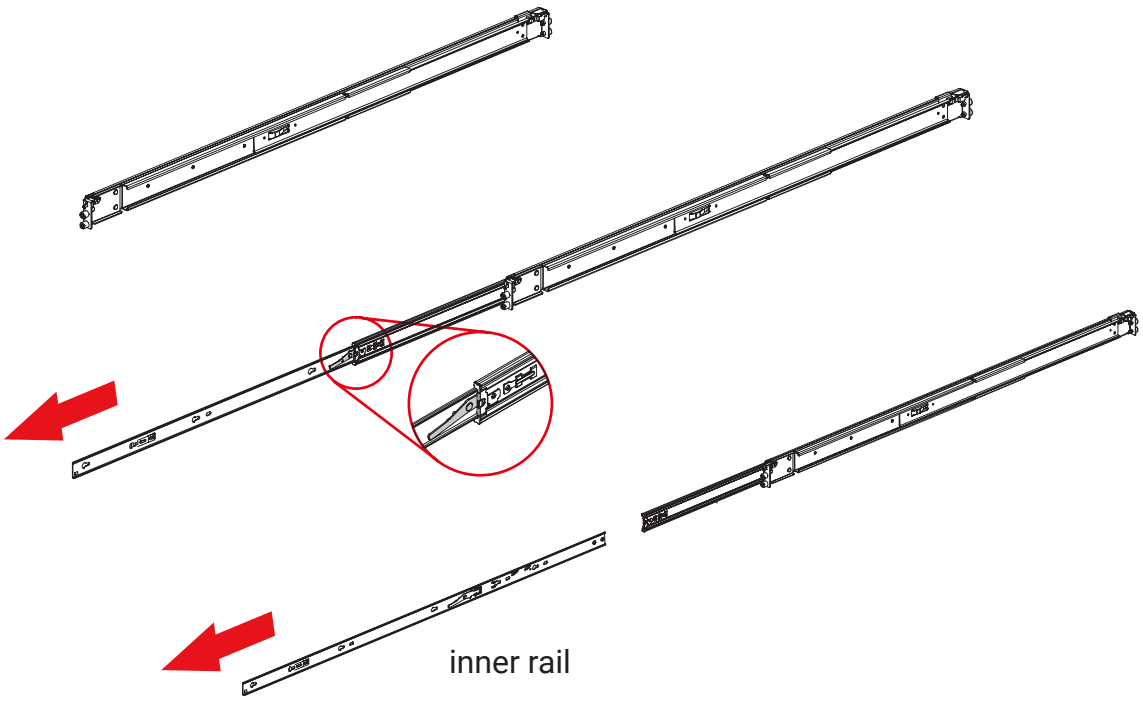
NOTE
Tool-less rails vary per order. The rail in this manual may not exactly match the rail for your system. Please refer to the spefications or quick installation guide that came with your purchased product.

CAUTION
The rack may tilt and fall due to incorrect installation or placed on uneven grounds. The rack must be placed in a flat surface before you begin to slide the system barebone in for servicing.

NOTE
The product installation position is less than 1 meter in height from the supporting surface.

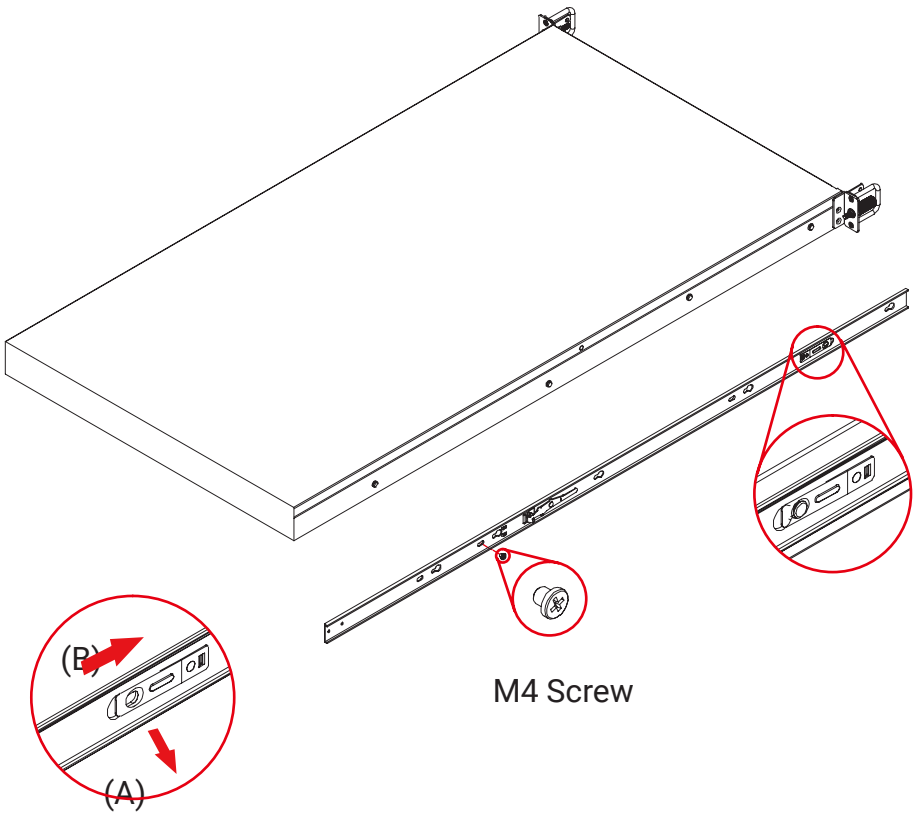
Slide rail	Length	Elongation length
USH-40SVH869-AC1	891.3 mm	650±3 mm

1. Release the innner rail from the outer rail
   ① Pull the inner rail until it clicks and press the release lever on the inner rail to remove it.



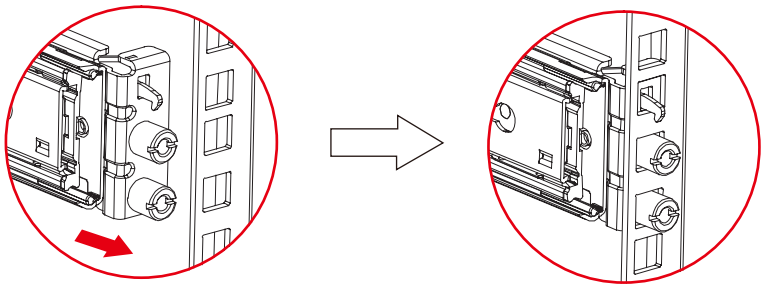
2. Install the inner rail onto the chassis

① Press the release rail against the chassis, lift the clip(A) and slide the inner rail toward the rear of the chassis(B).
② Secure the rail using the M4 screws.



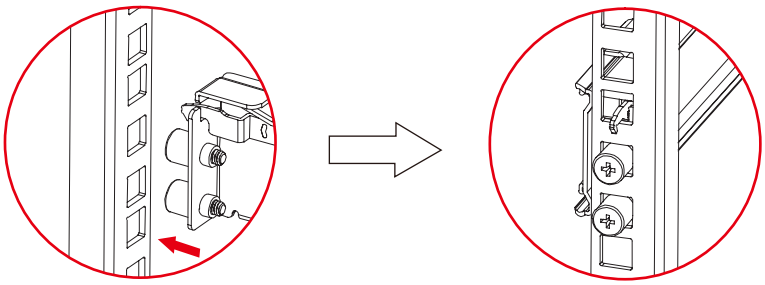
3. Attach the outer rail to the frame

① Lift up the lever and align the studs on the slide rail with the holes in the rack frame, and push forward.



Front Bracket

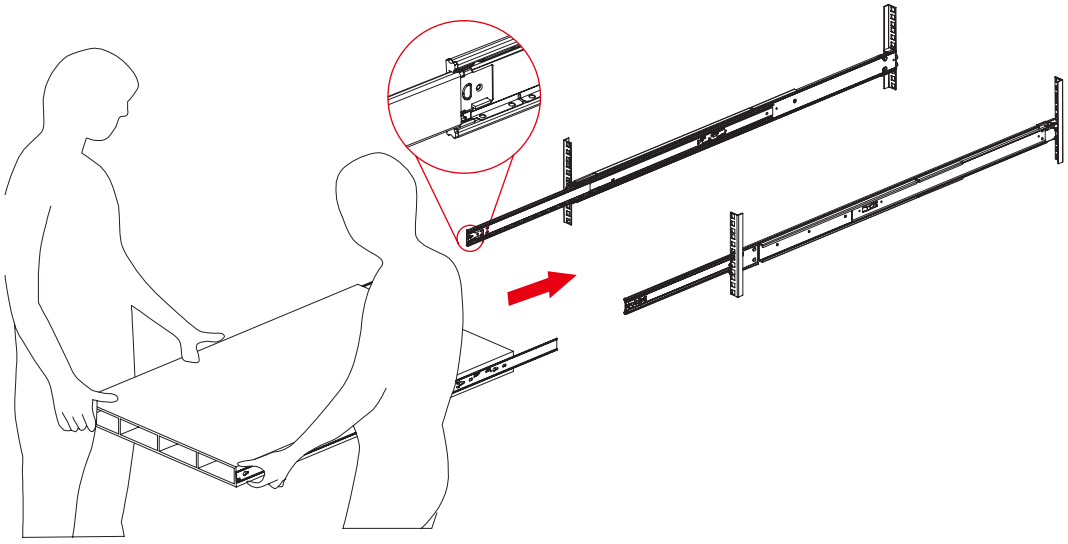
② Lift up the lever and align the studs on the slide rail with the holes in the rack frame, and pull back.



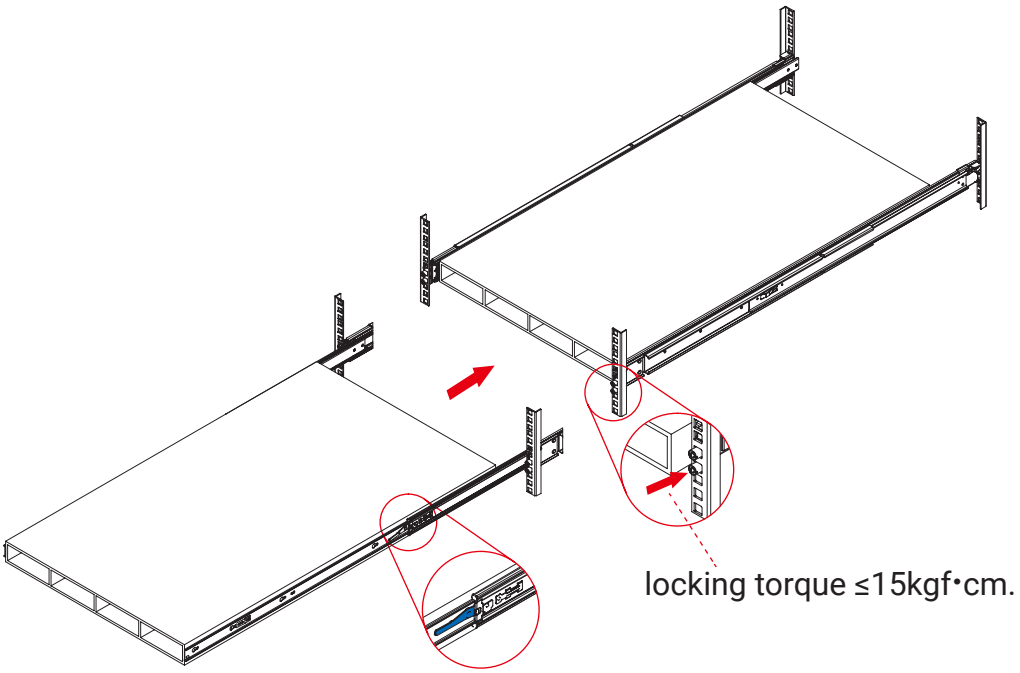
Rear Bracket

4. Insert the chassis to complete the installation

① Ensure ball bearing retainer is located at the front of the middle rail.
② Pull the middle rail of the outer rail until locked.
③ Horizontally insert the chassis into middle-outer rails.



④ Flip the latch to push the chassis into the rack.



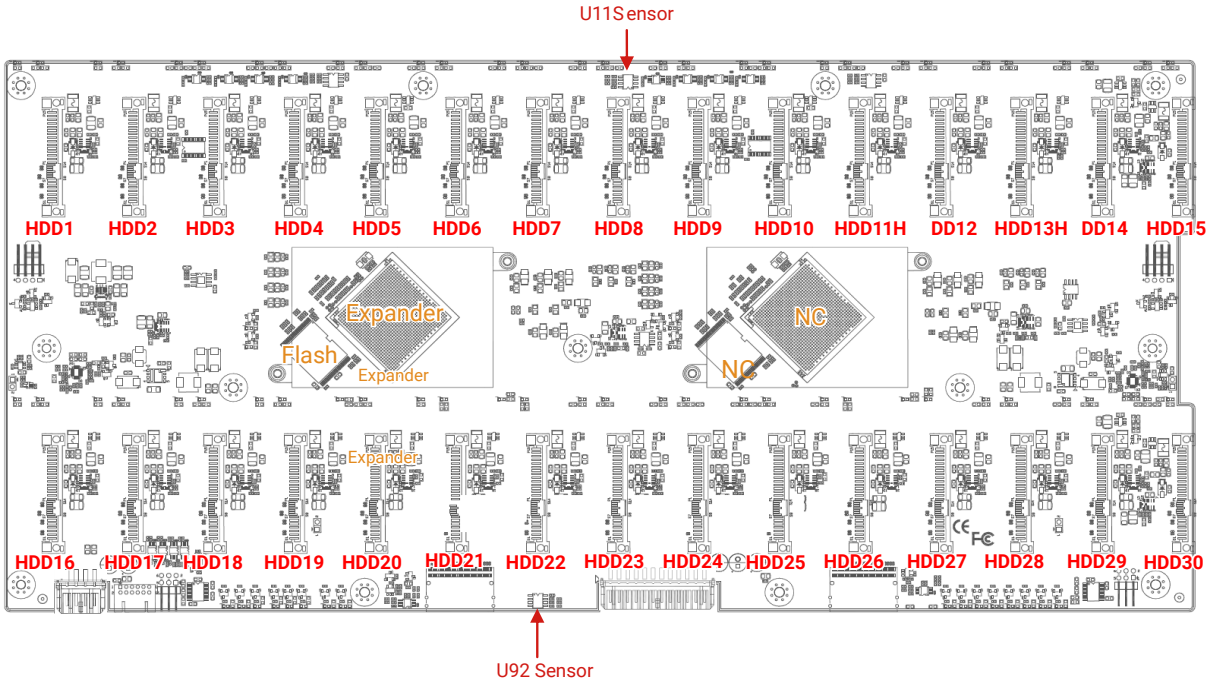
Chapter 3. Hardware Specifications

This chapter illustrates a detailed instruction guide on hardware specifications.

3.1 HDD Backplane

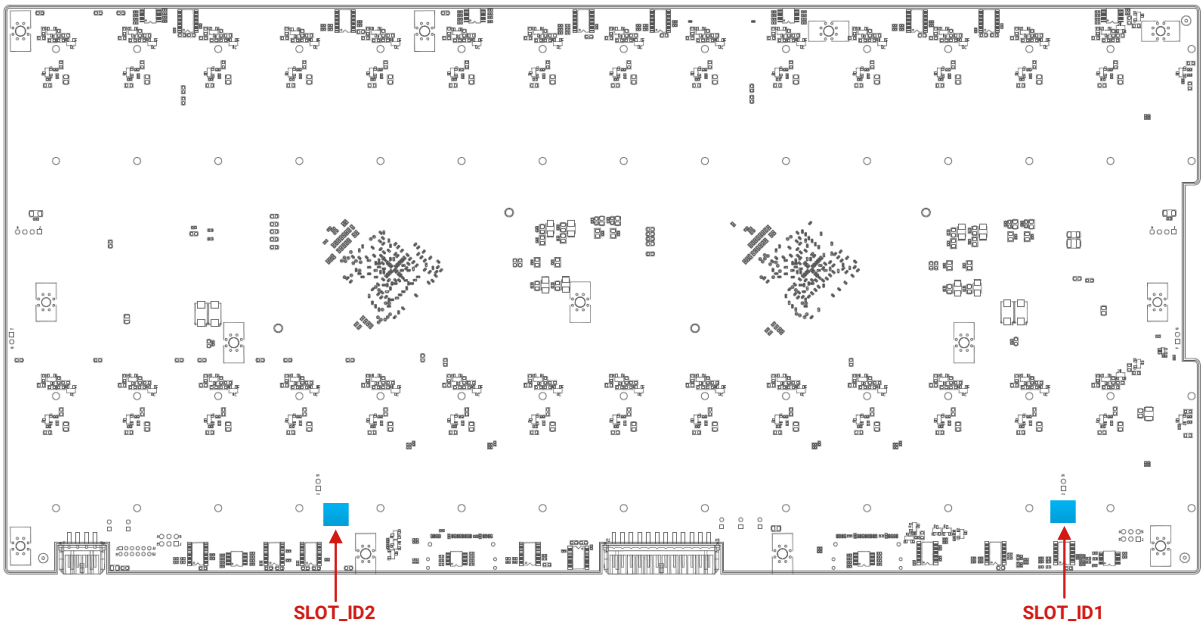
3.1.1 Layout

Top view

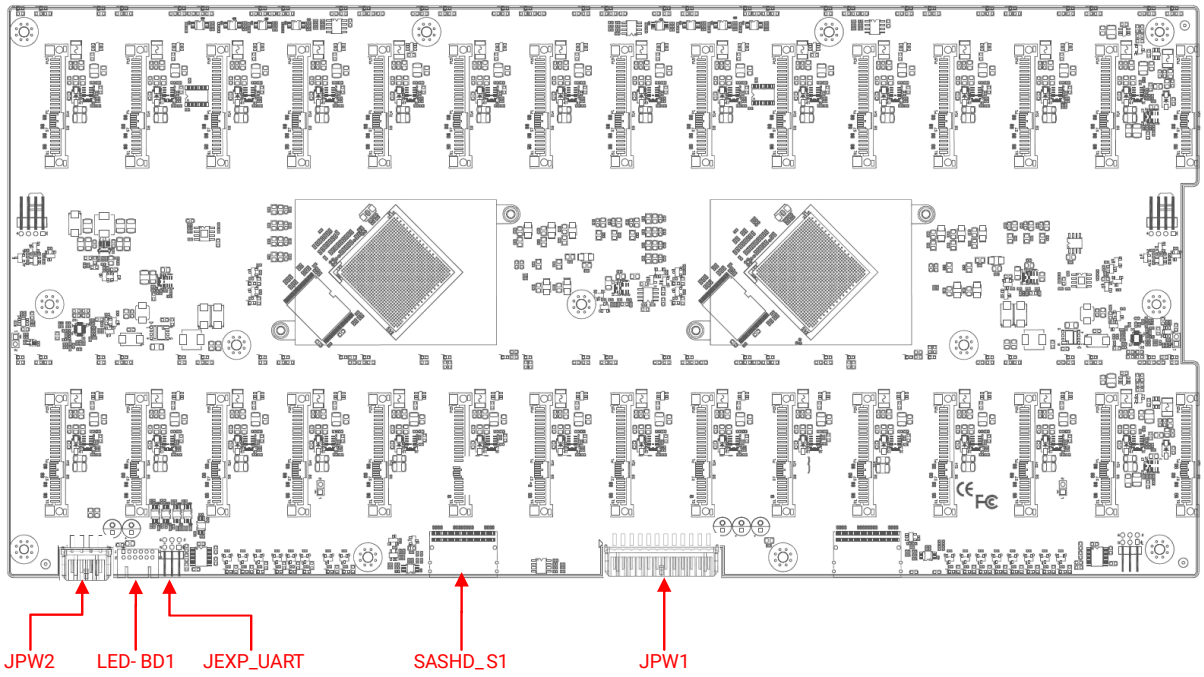


Connector	Description
HDD1-30	SFF-8680 SAS Receptacle (SMT H:14.15mm)

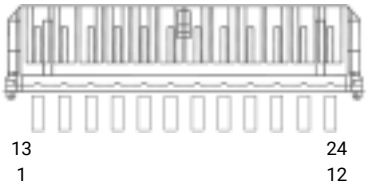
Bottom view



3.1.2 Connector

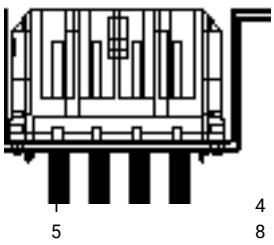


Power Connector (JPW1)



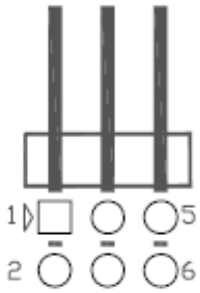
GND	13	1	GND
GND	14	2	GND
GND	15	3	GND
GND	16	4	GND
GND	17	5	GND
GND	18	6	GND
+12V	19	7	+12V
+12V	20	8	+12V
+12V	21	9	+12V
+12V	22	10	+12V
+12V	23	11	+12V
+12V	24	12	+12V

Power Connector (JPW2)



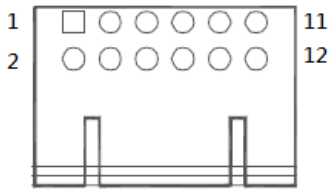
GND	5	1	GND
GND	6	2	GND
+12V	7	3	+12V
+12V	8	4	+12V

Control for Expander (JEXP_UART1)



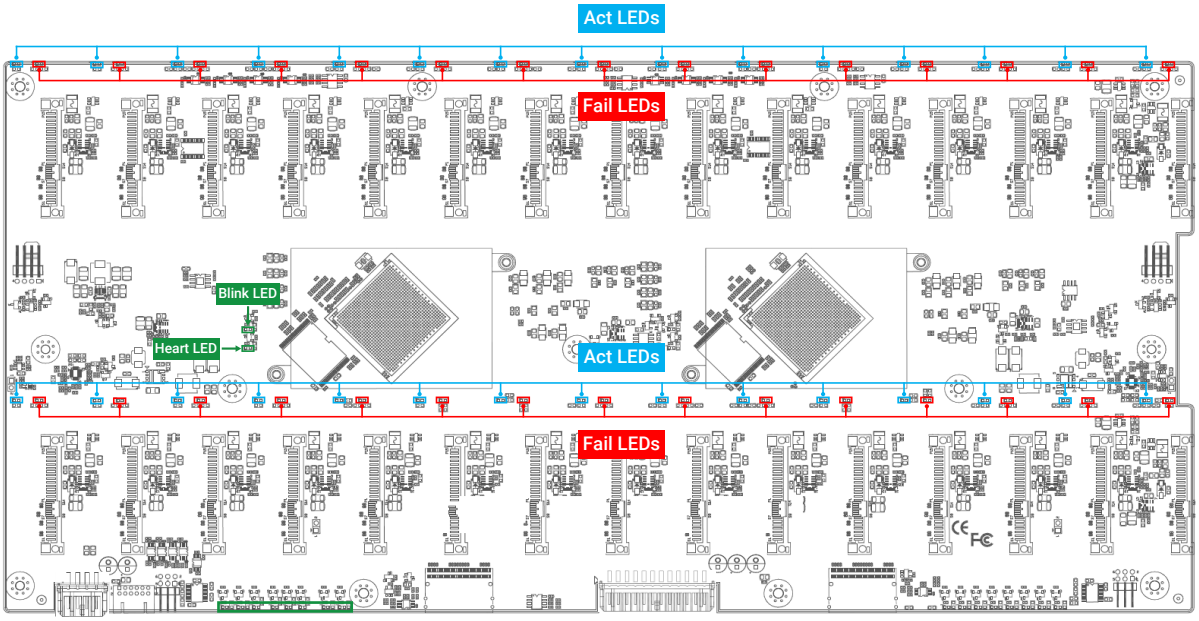
DBG_SIRXD	2	1	SM_SIRXD
GND	4	3	GND
DBG_SITXD	6	5	SM_SITXD

Front LED Board Control for Display HDD LED Status (LED-BD1)



+3V3	1	2	+5V
SLOAD2	3	4	SDATAOUT2
SCLOCK2	5	6	GND
SLOAD1	7	8	SDATAOUT1
SCLOCK1	9	10	CPLD SDA
CPLD SCL	11	12	GND

3.1.3 LED Indicator

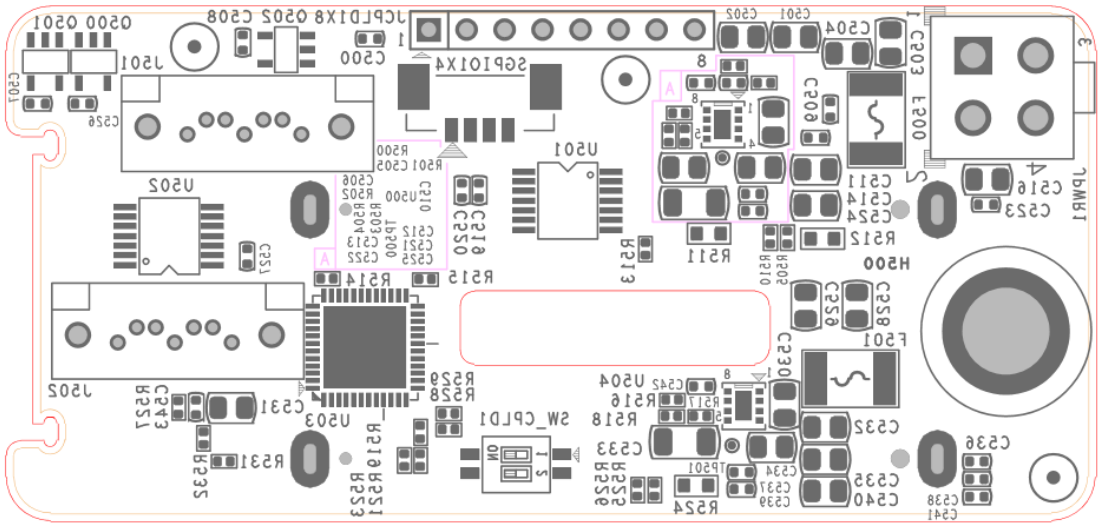


Indicator	Color	Behavior	Description
SAS PHY Link Status (LEDA1 to LEDA8)	Blue	On	Link up
		Blinking	Activity is detected
		Off	Link down
Expander Blink (LED31)	Blue	Blinking	Expander alive, 0.0833Hz (12 seconds per cycle)
Expander Heart Bit (LED33)	Blue	Blinking	Expander FW running
HDD Activity LEDs	Blue	On	HDD present
		Blinking	HDD Activity detected: 8Hz
		Off	HDD Locate: 0.5Hz
HDD Fault/Status LEDs	Red	On	Set by any of the following bits: 1. RQST MISSING 2. RQST FAULT
		Blinking	Set by any of the following bits: 1. RQST CONS CHECK 2. RQST IN CRIT ARRAY 3. RQST IN FAILED ARRAY 4. RQST REBUILD/REMAP 5. RQST R/R ABORT 6. RQST INSERT 7. RQST REMOVE 8. PRDFAIL
		Off	No control bit is set or set by any of the following bits: 1. RQST OK 2. RQST RSVD DEVICE 3. RQST HOT SPARE 4. RQST ACTIVE 5. DO NOT REMOVE 6. RQST IDENT 7. DEVICE OFF

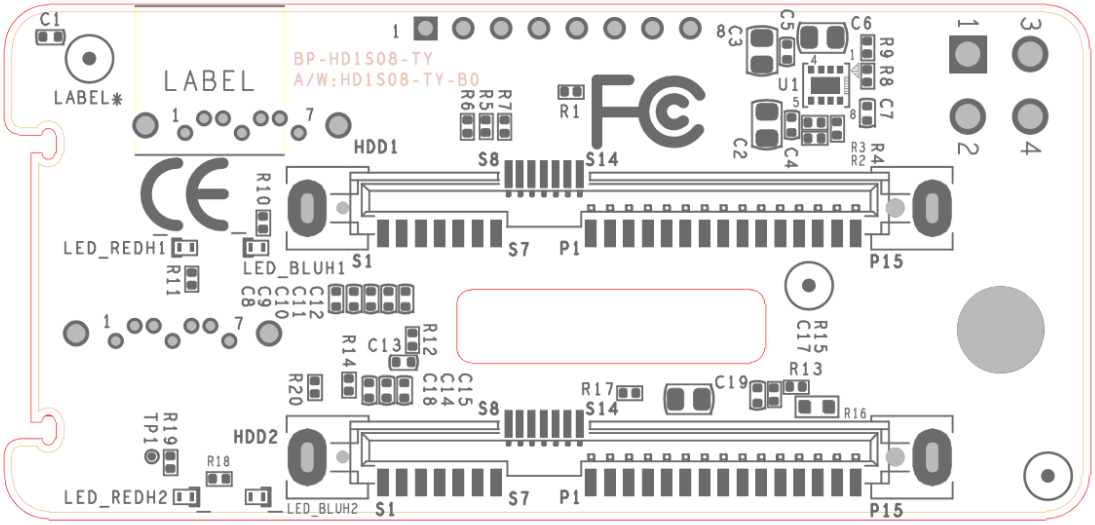
3.2 OS Backplane

3.2.1 Option 1: 2 Bay (SATA/SAS)

Top view



Bottom view



External

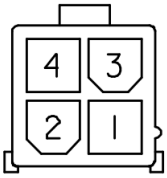
Connector	Description	Comment
HDD1~HDD2	SFF-8680 SAS Receptacle	HDD connector

Internal

Connector	Description	Comment
Power Supply (JPWR1)	SFF-8680 SAS Receptacle	3V3/5V/12V power. 10A per pin.
SATA7P (JSATA1,JSATA2)	SATA7 Pin Connector	SATA 6Gb
1X4P Header (SGPIO1X4)	1X4P SGPIO Header	SGPIO
1x8P Header (JCPLD1X8)	1X8P Pin Header	PROGRAM JTAG
Dip Switch (SW_CPLD1)	2X2P Dip Switch	ON: HDD control activity LED OFF: SGPIO control activity LED

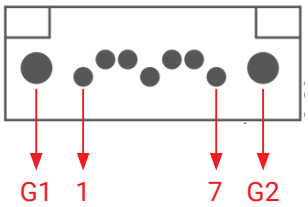
3.2.1.1 Connector

Power Connector (JPWR1)



GND	1	3	+12V
GND	2	4	+12V

SATA7P Connector (JSATA1, JSATA2)



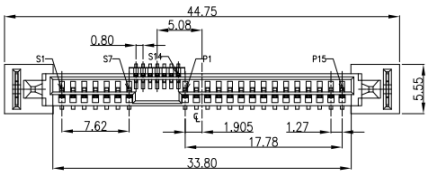
JSATA1

Pin	Description
1	GND
2	SATA_TX_DP0
3	SATA_TX_DN0
4	GND
5	SATA_RX_DN0
6	SATA_RX_DP0
7	GND
G1	GND
G2	GND

JSATA2

Pin	Description
1	GND
2	
3	
4	GND
5	
6	
7	GND
G1	GND
G2	GND

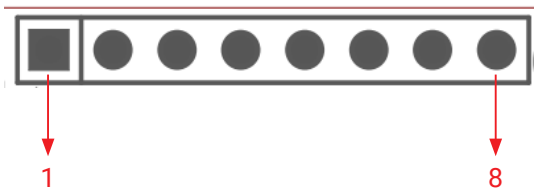
SAS29P Connector (HDD1, HDD2)



GND	S1	S1	GND
SATA_TX_DP0	S2	S2	SATA_TX_DP1
SATA_TX_DN0	S3	S3	SATA_TX_DN1
GND	S4	S4	GND
SATA_RX_DN0	S5	S5	SATA_RX_DN1
SATA_RX_DP0	S6	S6	SATA_RX_DP1
GND	S7	S7	GND
SASIN1_N	S8	S8	SASIN2_N
NC	S9	S9	NC
NC	S10	S10	NC
GND	S11	S11	GND
NC	S12	S12	NC
NC	S13	S13	NC
GND	S14	S14	GND
NC	P1	P1	NC
NC	P2	P2	NC
GND	P3	P3	GND
GND	P4	P4	GND
GND	P5	P5	GND
GND	P6	P6	GND
+5V1	P7	P7	+5V2
+5V1	P8	P8	+5V2
+5V1	P9	P9	+5V2
HDDIN1_N	P10	P10	HDDIN2_N
FM_HDD1_ACT_N	P11	P11	FM_HDD2_ACT_N
GND	P12	P12	GND
+12V1	P13	P13	+12V2
+12V1	P14	P14	+12V2
+12V1	P15	P15	+12V2
NC	H1	H1	NC
NC	H2	H2	NC
GND	GS1	GS1	GND
GND	GS2	GS2	GND

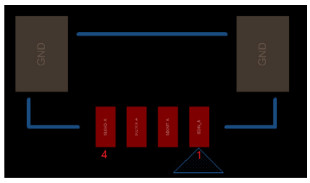
HDD1 HDD2

1X8P PROGRAM JTAG Connector (JCPLD1X8)



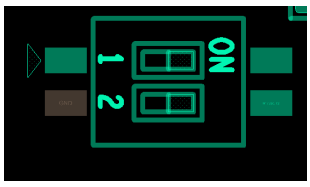
1	+3V3
2	TDO
3	TDI
4	PROGRAM_L
5	INTI_L
6	TMS
7	GND
8	TCK

1X4P SGPIO Connector (SGPIO1X4)



1	SDIN_A
2	SDOUT_A
3	SCLOCK_A
4	SLOAD_A
GS1	GND
GS2	GND

2X2P Dip Switch (SW_CPLD1)
CPLD Pin12 internal pull high, Dip Switch default off.



1	NC
2	GND
3	CPLD Pin12(PL5B)
4	NC

3.2.1.2 LEDs

CPLD HDD LED Control

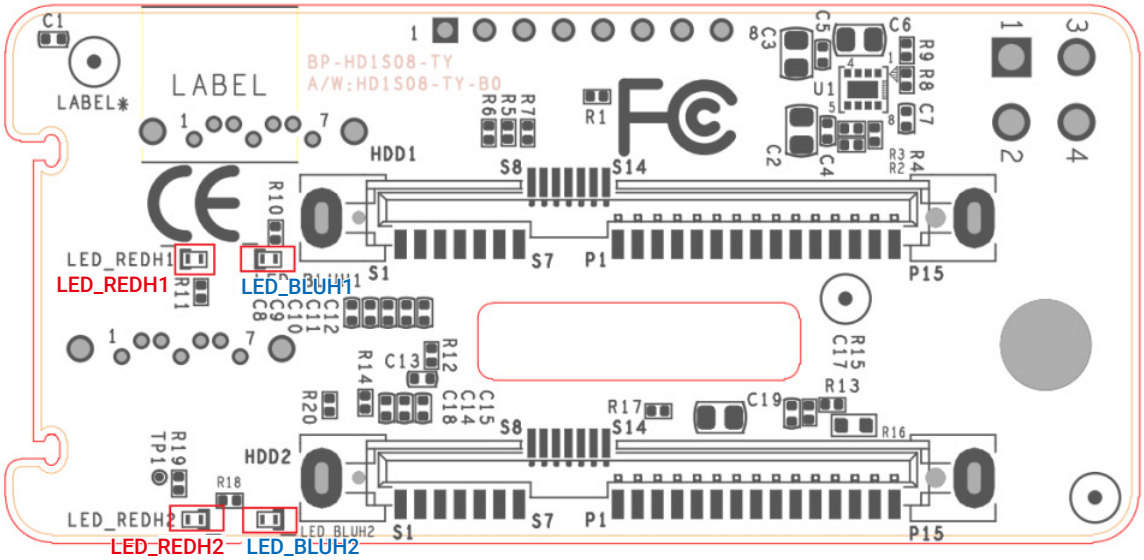
HDD Detection	
HDDINx_N = 1'b0	SAS, SATA

Activity LED	
SAS, SATA (FROMSGPIO = 1'b0, From HDD P11)	
SAS, SATA (FROMSGPIO = 1'b1, From SGPIO)	
No Activity	LED ON
Activity	LED 4Hz blinking

Locate LED & Fail LED	
SAS, SATA (From SGPIO)	
Locate = 1'b0 & Fail = 1'b1 (Fail)	LED ON (Fail LED)
Locate = 1'b1 & Fail = 1'b0 (Locate)	LED 4Hz blinking (Fail LED)
Locate = 1'b1 & Fail = 1'b1 (Rebuild)	LED 1Hz blinking (Fail LED)

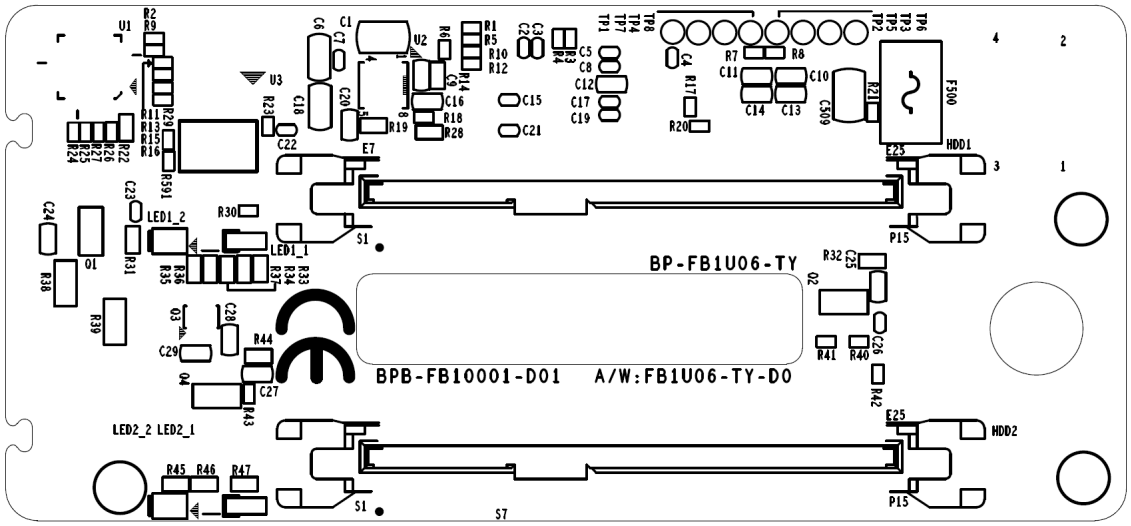
NOTE
The LED function of HDD works when HDD is inserted into the system.

Blue LED: Activity/Idle
Red LED: Locate/Fail

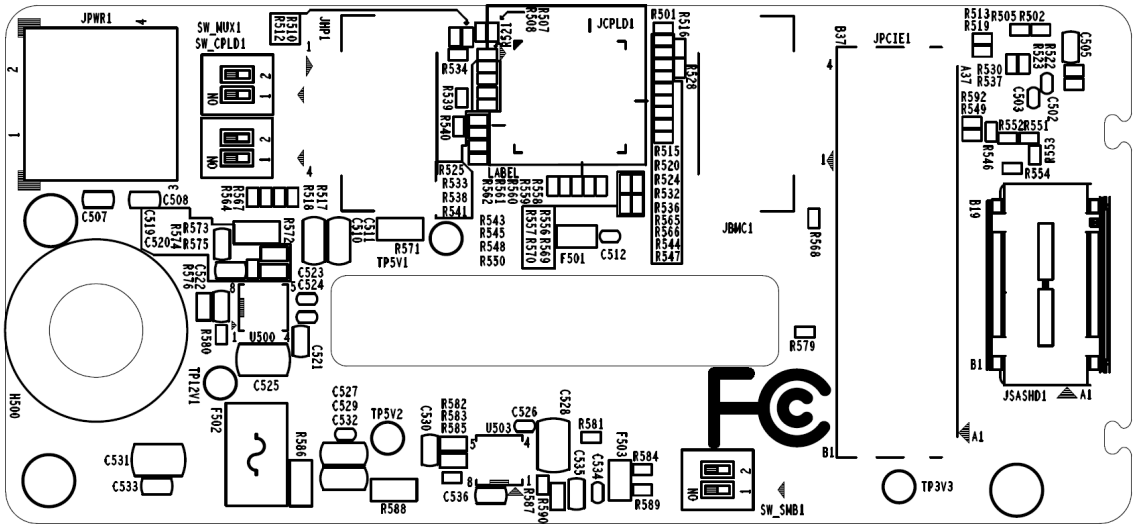


3.2.2 Option 2: 2 Bay (Tri-mode)

Top view



Bottom view



External

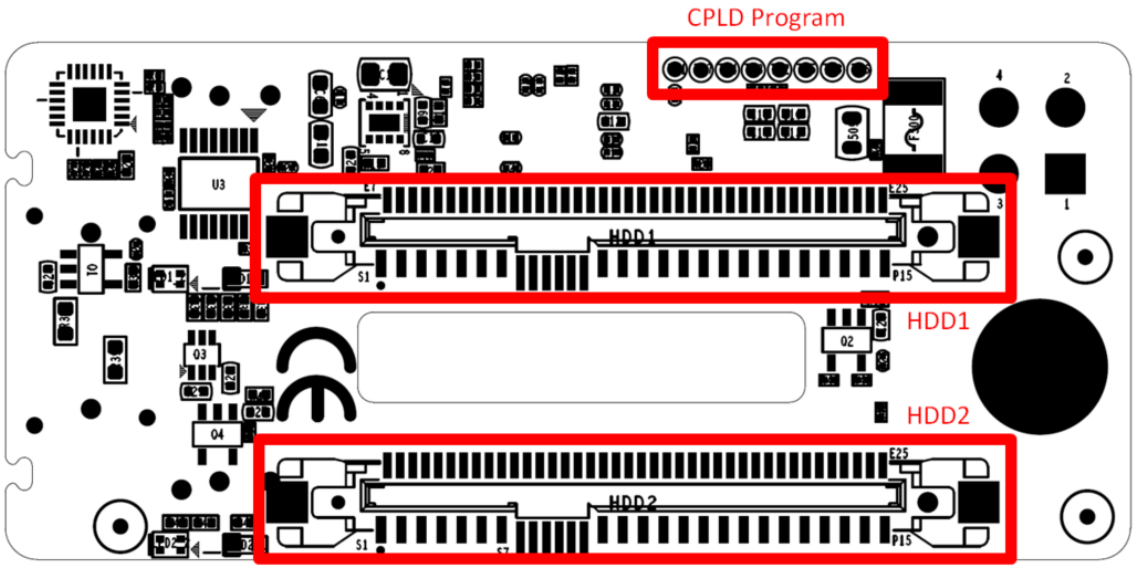
Connector	Description	Comment
HDD1~HDD2	68P VERTICAL	HDD Connection

Internal

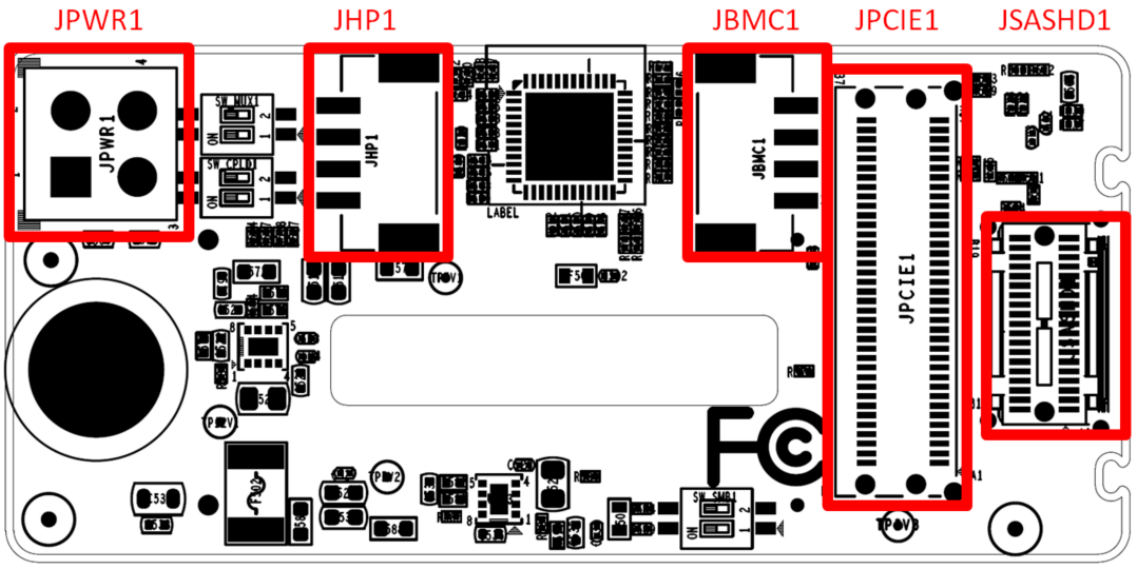
Connector	Description	Comment
MCIO (JPCIE1)	74Pin VERTICAL	PCIE GEN5 Connection
Slimline 4i (JSASHD1)	36Pin VERTICAL	SAS4 Connection
Power Connector(JPWR1)	2X2Pin	12V 6A per pin
PMBus(JBMC1)	1X4Pin	BMC bus
PMBus(JHP1)	1X4Pin	VPP bus

3.2.2.1 Connector

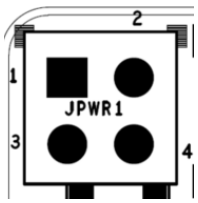
Top view



Bottom view

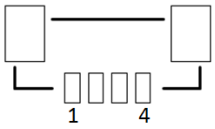


Power Connector (JPWR1)



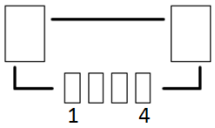
1	GND
2	GND
3	+12V
4	+12V

SMBUS Connector (JBMC1)



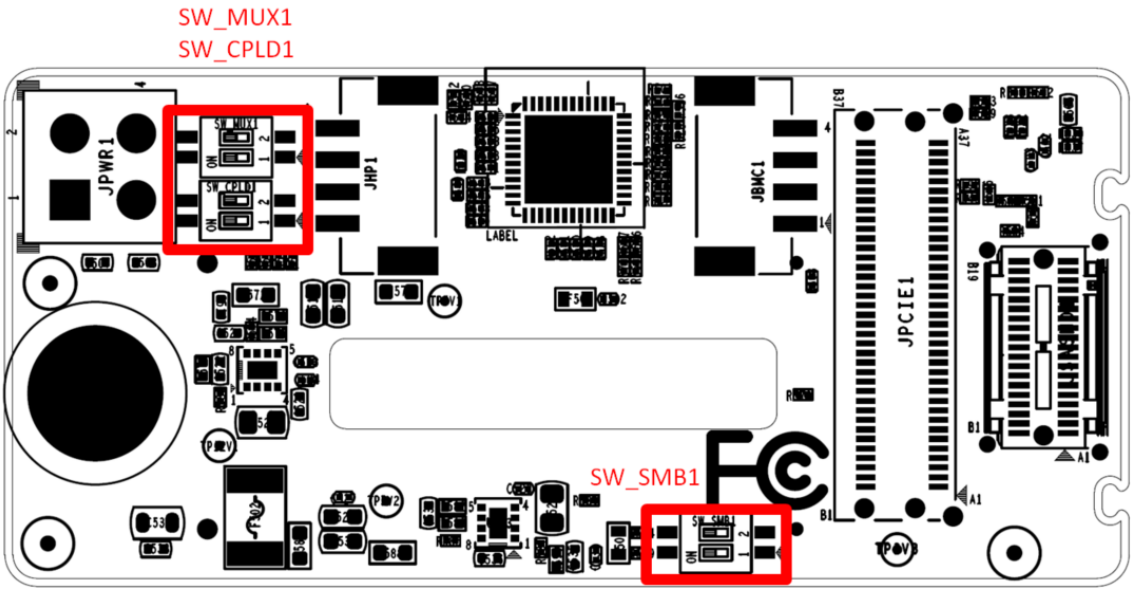
SMB_BP_BMC_SDA	1	2	GND
SMB_BP_BMC_SCL	3	4	SMB_BP_BMC_ALERT_N
GS1	5	6	GS2

JUMB_VPP1

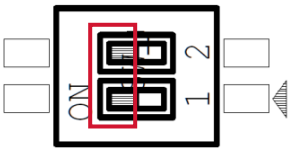


SMB_BPSHP1 _SDA	1	2	GND
SMB_BP_SHP1 _SCL	3	4	BP_SHPINT_OUT1_N
GS1	5	6	GS2

3.2.2.2 Switch Setting



SW_CPLD1: Default follow the red circule



1	CPLD_A1
2	CPLD_A0

- **VPP I2C slave address**

VPP I2C slave address is according to the SW_CPLD1 setting (0100 0A1A00)

CPLD_A0	ON=L	OFF=H	ON=L	OFF=H
CPLD_A1	ON=L	ON=L	OFF=H	OFF=H
Address	0x40 (Default)	0x42	0x44	0x46

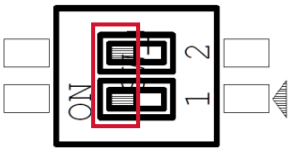
- **BMC I2C slave address**

BMC I2C slave address is according to the SW_CPLD1 setting (0110 0A1A00)

CPLD_A0	ON=L	OFF=H	ON=L	OFF=H
CPLD_A1	ON=L	ON=L	OFF=H	OFF=H
Address	0x60 (Default)	0x62	0x64	0x66

NOTE
VPP and BMC I2C share SW_CPLD1, so this address will change accordingly.

SW_MUX1: Default follow the red circule



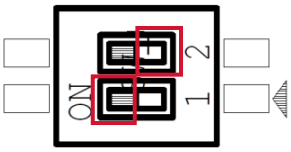
1	I2CMUX_A0
2	I2CMUX_A1

- **BMC I2C bus swtich address**

I2CMUX_A0	ON=L	OFF=H	ON=L	OFF=H
I2CMUX_A1	ON=L	ON=L	OFF=H	OFF=H
Address	0xE0 (Default)	0xE2	0xE4	0xE6

NOTE
If detection of the CPLD is required through JBMC1, it must pass through the I2C bus switch.
Chanel0:SSD1 bus
Chanel1:SSD2 bus
Chanel2:CPLD Register
Chanel3:CPLD Program

SW_SMB1: Default follow the red circule



1	SMB_SHP_BMC_EN
2	SMB_SHP_BMC_SEL

- **VPP/BMC I2C Selection**

	SHP(Default)	BMC	External
SMB_SHP_BMC_EN	ON=L	ON=L	OFF=H
SMB_SHP_BMC_SEL	OFF=H	ON=L	

3.2.2.3 Intel VPP setting

- **Intel Standard VPP NVME [0:1] Configuration**

(1) INTEL VPP Address 0x40 [0:1]

(2) Support 4 address setting 0x40/0x42/0x44/0x46

SW_CPLD1(ADDRESS : 0x40)

4	3
ON	ON
1	2

SW_SMB1(I2C SEL)

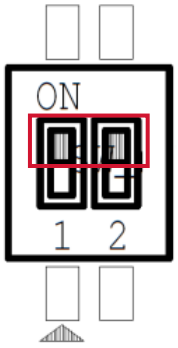
4	3
ON	
	OFF
1	2

- **Broadcom Addon Card VPP NVME [0:1] Configuration**

(1) 9500-16i HBA card VPP Address 0x40 [0:1]

SW_CPLD1(ADDRESS : 0x40)

4	3
ON	ON
1	2



SW_SMB1(I2C SEL)

4	3
ON	
	OFF
1	2

- **Microchip Addon card VPP NVME [0:1] Configuration**

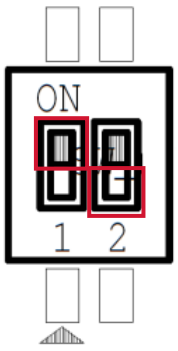
(1) 3258-16i HBA card VPP Address 0x40 [0:1]

SW_CPLD1(ADDRESS : 0x40)

4	3
ON	ON
1	2

SW_SMB1(I2C SEL)

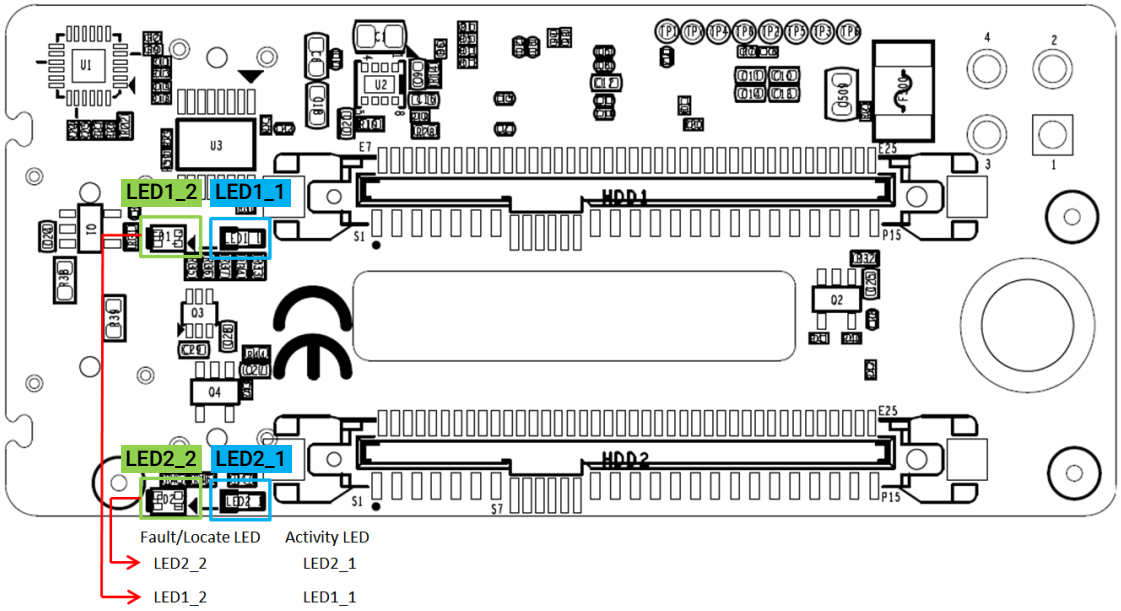
4	3
ON	
	OFF
1	2



3.2.2.4 LEDs

Item	Color	Behavior	Description
HDD Activity LEDs	Blue	On	Link up
		Blinking	Activity is detected
		Off	Link down
HDD Locate LEDs	Green	On	HDD Locate(for NVME HDD)
		Off	NA
HDD Fault/Status LEDs	Yellow	Off	Normal
		Blinking	Re-build status/ HDD Locate LEDs(for SAS HDD)
		On	HDD Fault

Location



Chapter 4. Technical Support

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For additional technical support or questions about trouble shooting, please contact the AIC® representative nearest to you or visit our AIC® website for more information.
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