



# RSC-2AT3

## Rackmount Chassis User's Manual

# Table of Contents

<b>Preface .....</b>	<b>i</b>
<b>Safety Instructions .....</b>	<b>ii</b>
<b>About This Manual .....</b>	<b>iv</b>
<b>Chapter 1. Product Features .....</b>	<b>1</b>
1.1 Components .....	1
1.2 Specifications .....	2
1.3 Features .....	2
<b>Chapter 2. Hardware Setup .....</b>	<b>5</b>
2.1 Top Cover .....	5
2.2 Power Supply Unit Module .....	6
2.2.1 LED Indicator .....	6
2.3 Fan Module .....	7
2.4 Hard Disk Drive .....	9
2.4.1 Disk Drive: 2.5-inch.....	9
2.5 Slide Rail .....	11
3.1 Disk Drive Backplane: 24 Bay (SKU1).....	14
3.1.1 Placement.....	14
<b>Chapter 3. Hardware Specifications.....</b>	<b>14</b>
3.1.2 Connector .....	15
3.1.3 LED Indicator .....	17
3.1.4 PHY Mapping.....	19
3.2 Disk Drive Backplane: 8 Bay (SKU2/3/4) .....	20
3.2.1 Placement.....	20
3.2.2 Connector .....	21
3.3 Disk Drive Backplane: 8 Bay (SKU3/4/5) .....	25
3.3.1 Placement.....	25
3.3.2 Connector .....	26
3.3.3 LED Indicator .....	29
3.3.4 DIP-Switch .....	30
<b>Chapter 4. Technical Support.....</b>	<b>32</b>

### Document Release History

<b>Release Date</b>	<b>Version</b>	<b>Update Content</b>
November 2022	1	User's Manual release to public.
March 2023	1.1	Update fan specification.
June 2023	1.2	Update Dimensions.



**Copyright© 2022 AIC®, Inc. All Rights Reserved.**

This document contains proprietary information about AIC® products and is not to be disclosed or used except in accordance with applicable agreements.

# Preface

## Copyright

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photo-static, recording or otherwise, without the prior written consent of the manufacturer.

## Trademarks

All products and trade names used in this document are trademarks or registered trademarks of their respective holders.

## 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

AIC® shall not be liable for technical or editorial errors or omissions contained herein. The information provided is provided "as is" without warranty of any kind. To the extent permitted by law, neither AIC® or its affiliates, subcontractors or suppliers will be liable for incidental, special or consequential damages including downtime cost; lost profits; damages relating to the procurement of substitute products or services; or damages for loss of data, or software restoration. The information in this document is subject to change without notice.

## 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 hardware 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 circumspactly 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 distinctively 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 severely 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。

请将伺服器放置在穩定的環境中。

**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 disintegration.
- Carefully and accurately mount the equipment into the rack. Uneven mechanical loading may lead to hazardous 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 Access 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 assistance. 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-2AT3

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-2AT3 Rackmount Chassis. For the latest version of this user's manual, please refer to the AIC® website: RSC-2AT3 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/51406>.

## **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-2AT3 is a flexible rackmount storage chassis with tool-less design. This product supports hot swappable disk drives, and six easy swap fans. For more information about our product, please visit our website at <http://www.aicpc.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)
- Slide rail x 1 set

Pre-installed into the system		Number
✓	1200W 1+1 redundant PSU PMBus 1.2 80+ Platinum	1+1
✓	2.5-inch internal hot swap drive bays (front, SATA/SAS3/NVMe)	24
✓	2.5-inch external hot swap drive bays (rear)	2
✓	3 x 80x38mm hotswap fans + 1 x 80x38mm easy swap fan (option)	3+1 (option)
Accessory Item		Number
✓	24 x 2.5-inch HDD bottom screw : F(+),M3X4L,NI	96
✓	Motherboard screw: RW(+),M3X4L,NI	20
✓	EPE TOP: 815*625*97H	1
✓	EPE BOTTOM: 815*625*97H	1
✓	EPE PAD: 325*145*30T	1
✓	28-inch tool-less slide rail assembly	1
✓	Power cord	vary per region

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

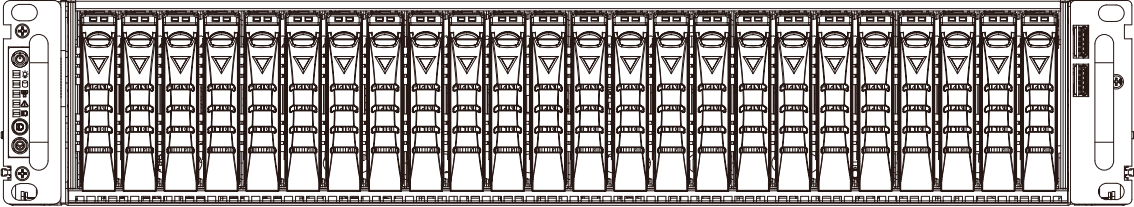
## 1.2 Specifications

<b>Dimensions</b> (W x D x H)	mm : 430 x 645 x 88		<b>Backplane</b>	<ul style="list-style-type: none"> <li>• SKU1: 1 x 24-port SAS3 expander backplane,</li> <li>• SKU2: 3 x 8-port SAS3 backplane,</li> <li>• SKU3: 1 x 8-port SAS3/PCIe Gen4 NVMe tri-mode backplane, 2 x 8-port SAS3 backplane</li> <li>• SKU4: 2 x 8-port SAS3/PCIe Gen4 NVMe tri-mode backplane, 1 x 8-port SAS3 backplane</li> <li>• SKU5: 3 x 8-port SAS3/PCIe Gen4 NVMe tri-mode backplane</li> <li>• SKU6: 1 x 24-port SAS4 expander backplane</li> </ul>			
	inches : 17 x 25.4 x 3.5						
<b>Industry Standard</b>	EIA-RS310D						
<b>Material</b>	Heavy-duty preplated SGCC cold-rolled steel						
<b>Color</b>	Front Panel : Black						
<b>Cooling</b>	3 x 80x38mm hotswap fans + 1 x 80x38mm easy swap fan (option)				<b>Storage Temperature</b>	0°C(32°F) ~ 50°C(122°F)	
<b>Power Supply</b>	1200W 1+1 redundant PSU PMBus 1.2 80+ Platinum				<b>Humidity</b>	5%~95% non-condensing	
<b>Expansion Slots</b>	7 low profile				<b>Gross Weight</b>	(w/ PSU & Rail)	kgs : 24.5 lbs : 54
<b>Front Panel</b>	System power on/off, system reset and 2 x USB 3.0 ports				<b>Packaging Dimensions</b>	(W x D x H)	mm : 645 x 835 x 230 inches : 25.4 x 32.9 x 9.06
<b>LED Indicators</b>	Power, LAN, Drive and Alert				<b>Cubic Feet</b>	4.37	
<b>System Board</b>	12"(W) x 13"(D) E-ATX/SSI EEB 3.6 compliant MB		<b>Container Load Quantity</b>	20'	200		
<b>Drive Bays</b>	External	2.5" hot swap	24 x SATA/SAS3/SAS4/NVMe (15mm, front)	40'	430		
				2 x 2.5" hot swap (7mm, rear)	40' H	480	
			<b>Mounting</b>	Standard	28" tool-less slide rail		









## 1.3 Features

- Tool-less design supports quick installation and easy maintenance:
  - Tool-less 2.5" drive trays
  - Tool-less top covers
  - Tool-less backplane
  - Tool-less slide rails
- 12Gb/s SAS 3 expander chip / NVMe tri-mode on backplane
- Specially designed hot swap and low power consumption fans minimize rotational vibration and provide superior cooling
- Comes with a redundant PSU 80+ Platinum

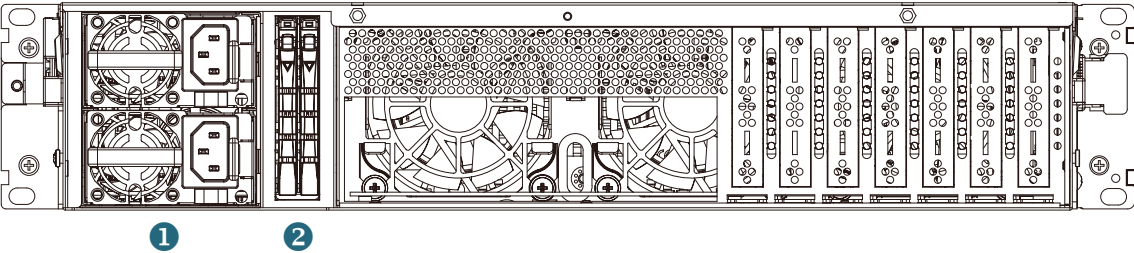
**Front Panel**



System Button and LED Indicator

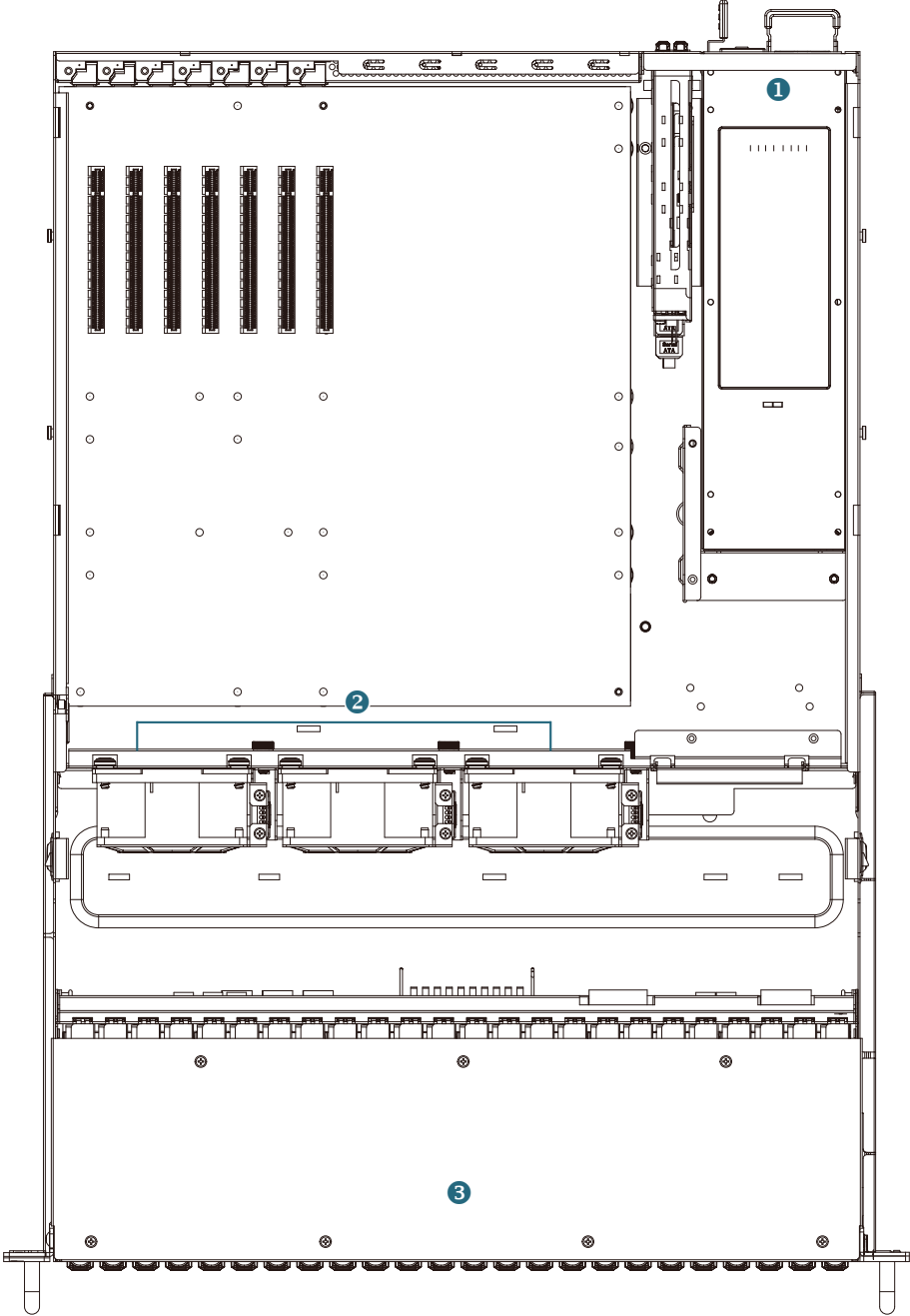
Item	Description	Item	Description
	Power Button		LAN LED
	Power Status LED		System Reset Button
	Drive Activity LED		System Alert LED
	System ID LED		ID Button

**Rear Panel**




Item	Content	Description
1	PSU socket	1200W 1+1 redundant PSU PMBus 80+ Platinum
2	Disk drive tray	2x 2.5" hot swap disk drive bay

Top View



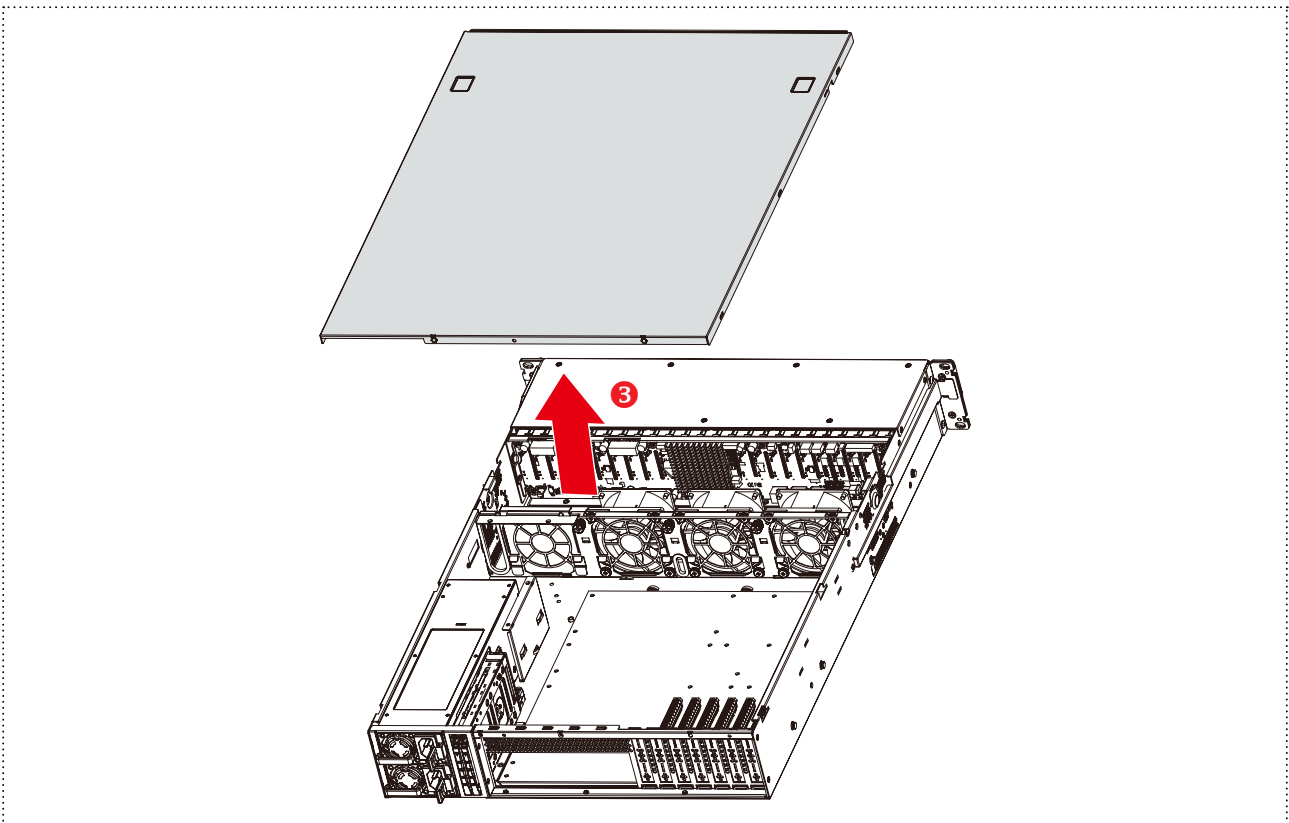
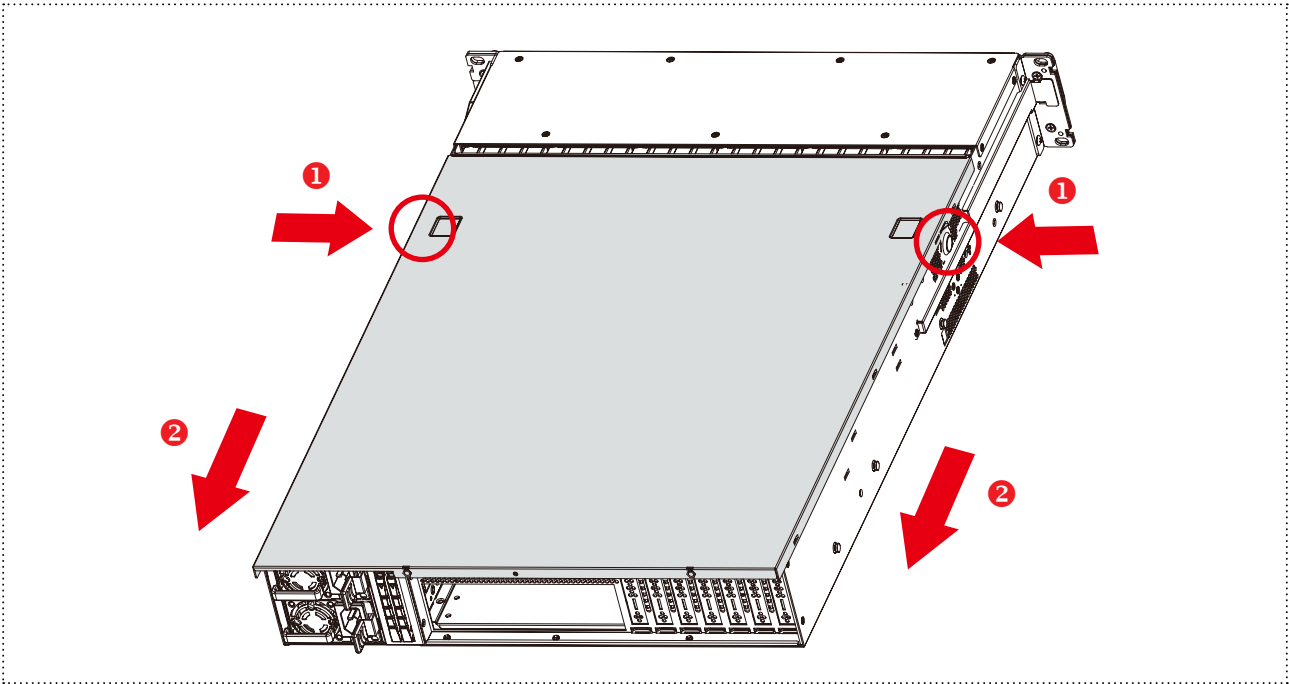
Item	Description
1	1200W 1+1 redundant power supply 80+Platinum
2	3 x 80x38mm hotswap fans + 1 x 80x38mm easyswap fan (option)
3	24 x 2.5-inch hot swap disk drive

 **NOTE**  
Motherboard is not included in this product.

# Chapter 2. Hardware Setup

## 2.1 Top Cover

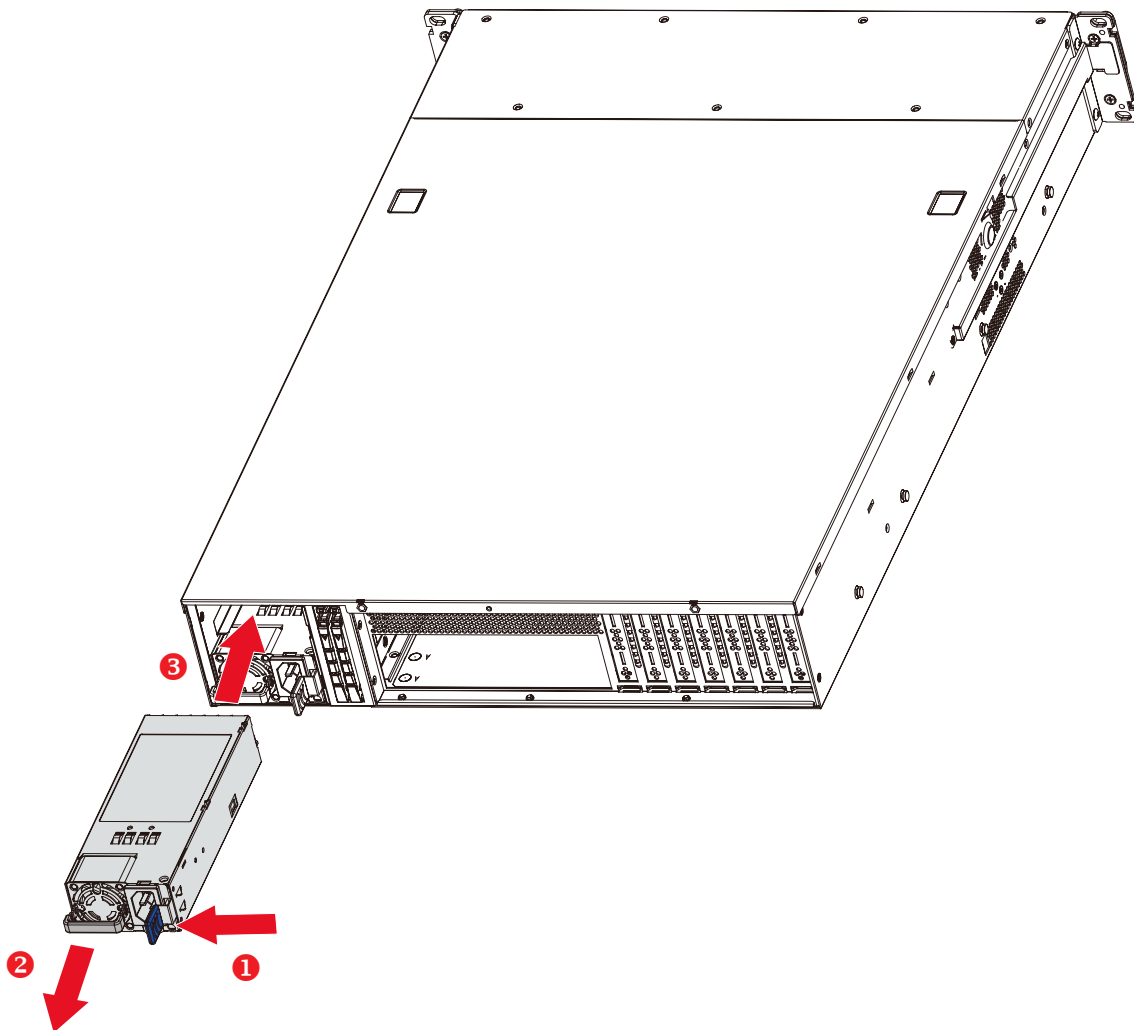
- ① Press the button on the both side of the chassis.
- ② Slide the top cover towards the rear of the system barebone.
- ③ Lift the top cover upward to remove.



This information is provided for professional technicians only.

## 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 power supply unit into the chassis. Ensure that the module is hooked into the cage.



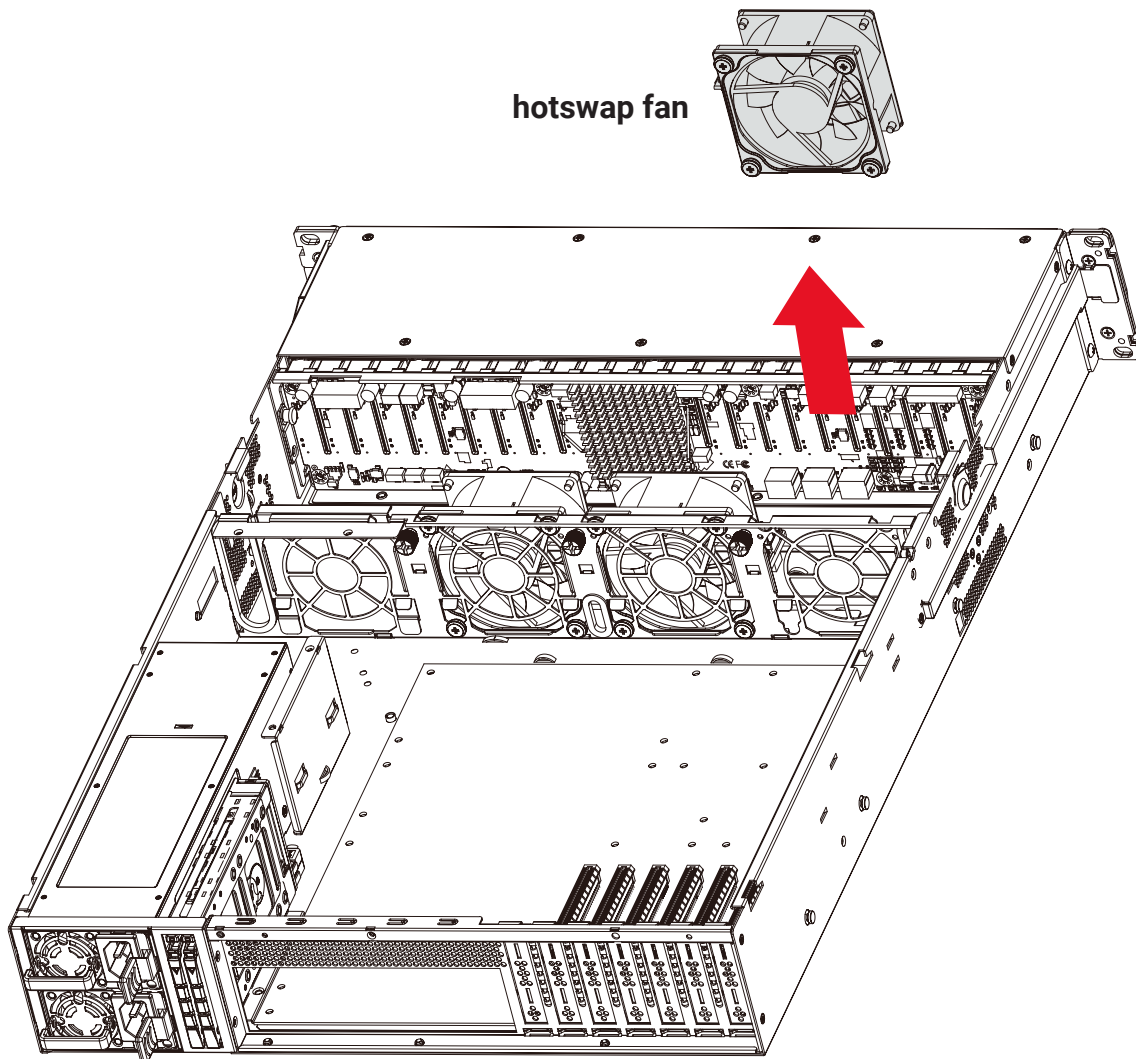
### 2.2.1 LED Indicator

Color	Behavior	Description
Green	Solid	Output on and working normally.
	Blinking, 1Hz	Only 12Vsb (PS off) or PSU is in cold redundant state.
Amber	Solid	Power supply critical event causing a shutdown; AC cord unplugged or AC power lost, failure, OCP, OVP, fan fail.
	Blinking, 1Hz	Power supply warning events where the power supply continues to operate high temp, high power, high current, slow fan.

## 2.3 Fan Module

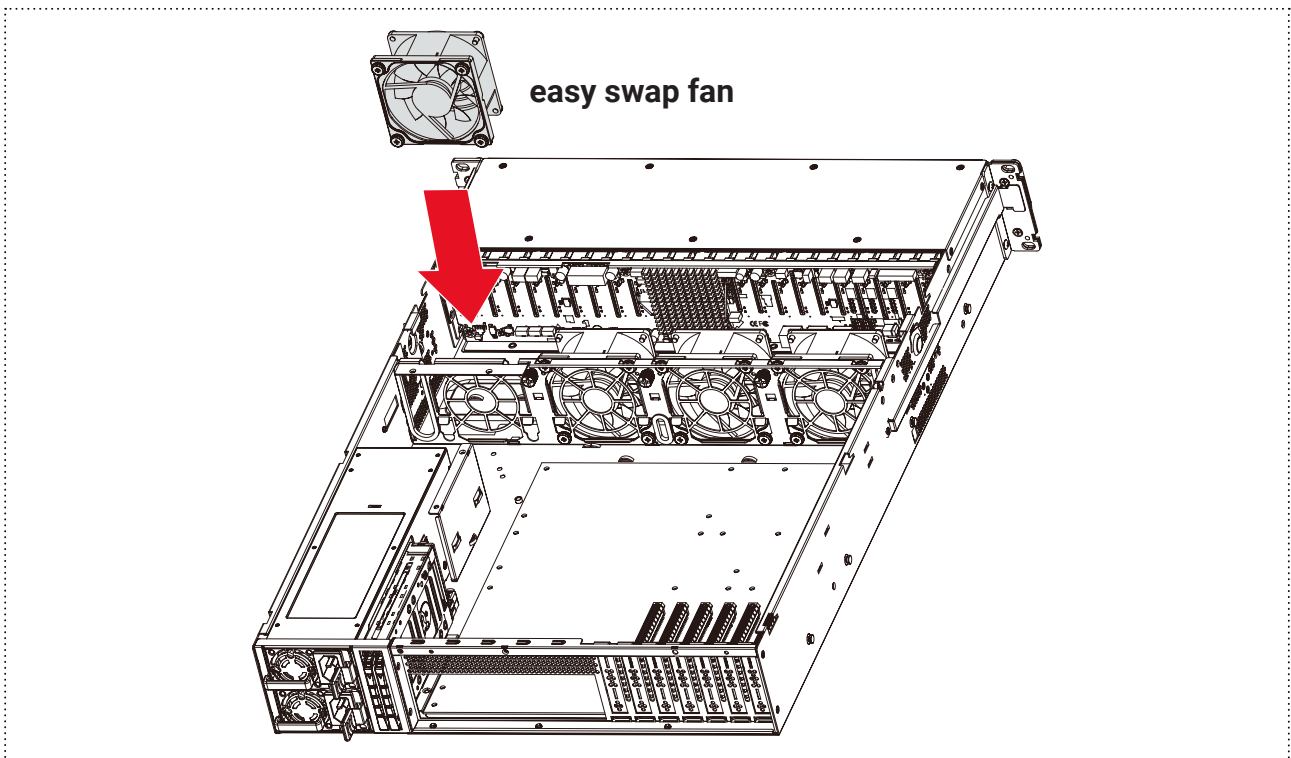
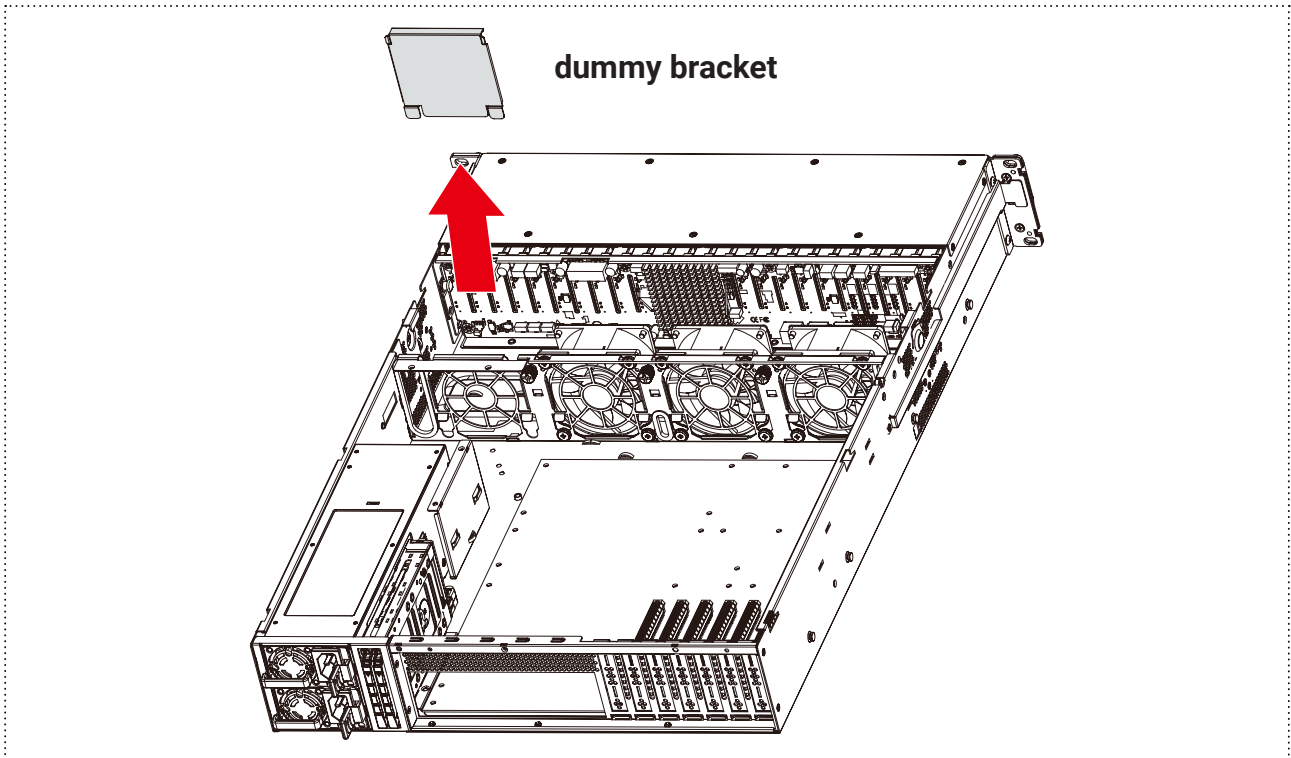
### 3 x 80x38mm hotswap fans

- 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 Pull the top fan out of the chassis.



**( Option: 1 x 80x38mm easy swap fan )**

- ① Pull the dummy bracket out of the fan bracket.
- ② Insert the easy swap fan onto the fan bracket.
- ③ Plug the fan cables and connectors to the motherboard.



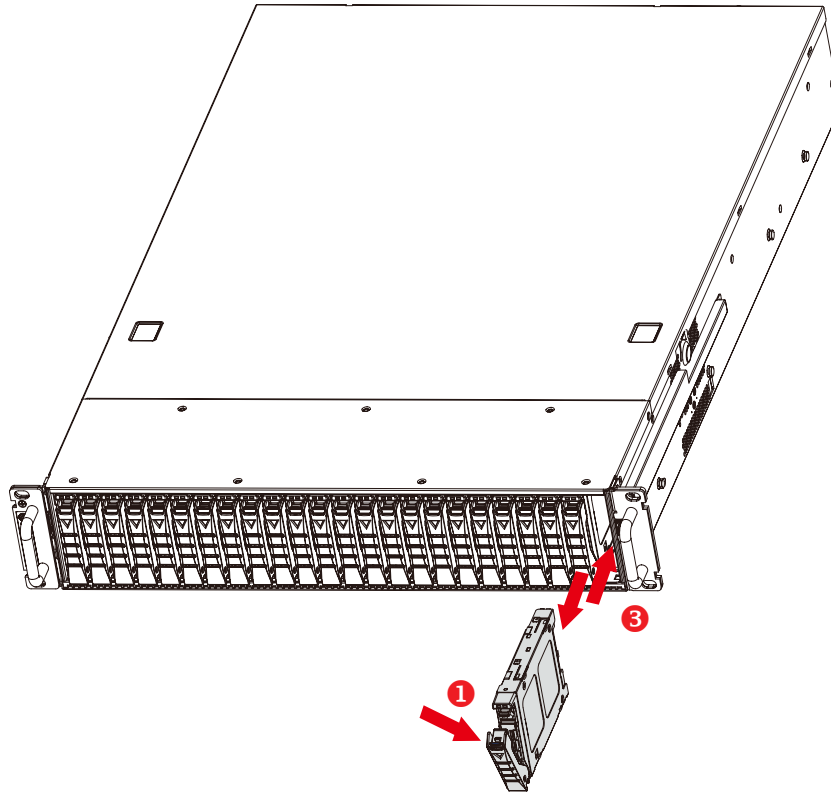
This information is provided for professional technicians only.

## 2.4 Hard Disk Drive

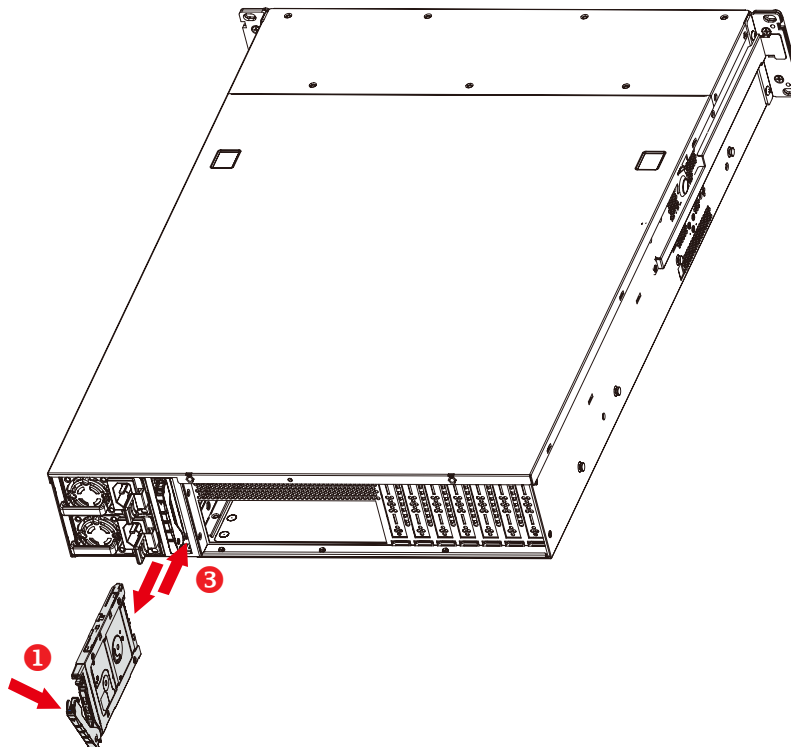
### 2.4.1 Disk Drive: 2.5-inch

- 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.

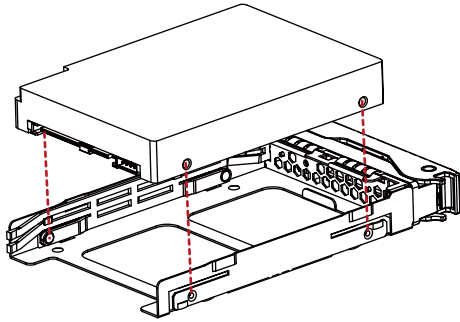
Front



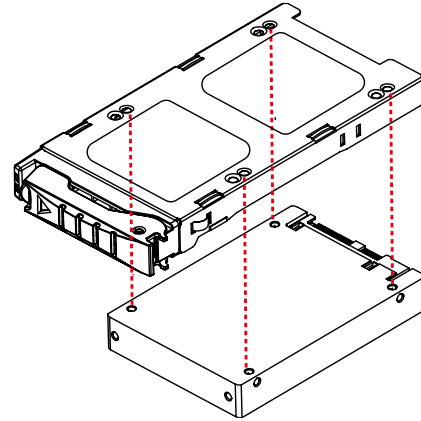
Rear



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



dimple placement



screw placement

- ⑤ Push the tray with the installed disk drive into the end of the drive slot in the chassis.  
⑥ Close the tray handle.



This information is provided for professional technicians only.

## 2.5 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 specifications or quick installation guide that came with your purchased product.



### CAUTION

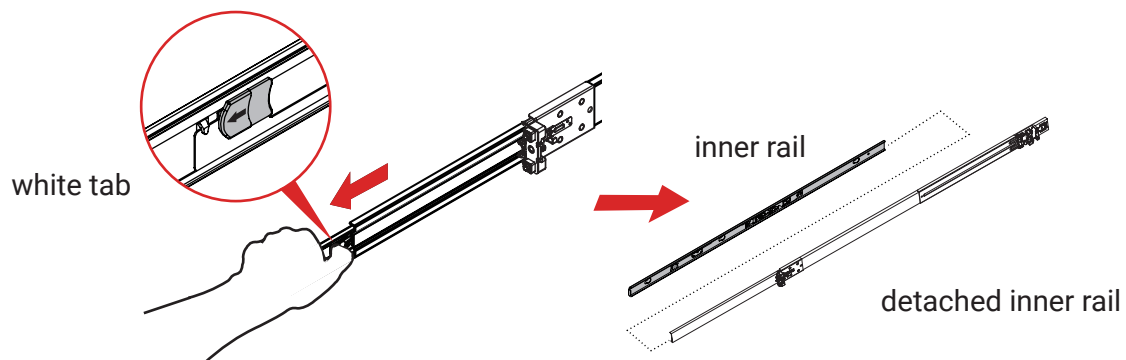
The rack may tilt and fall due to incorrect installation or placed on uneven grounds. The rack must be placed in a flat surface before you begin to slide the system barebone in for servicing.



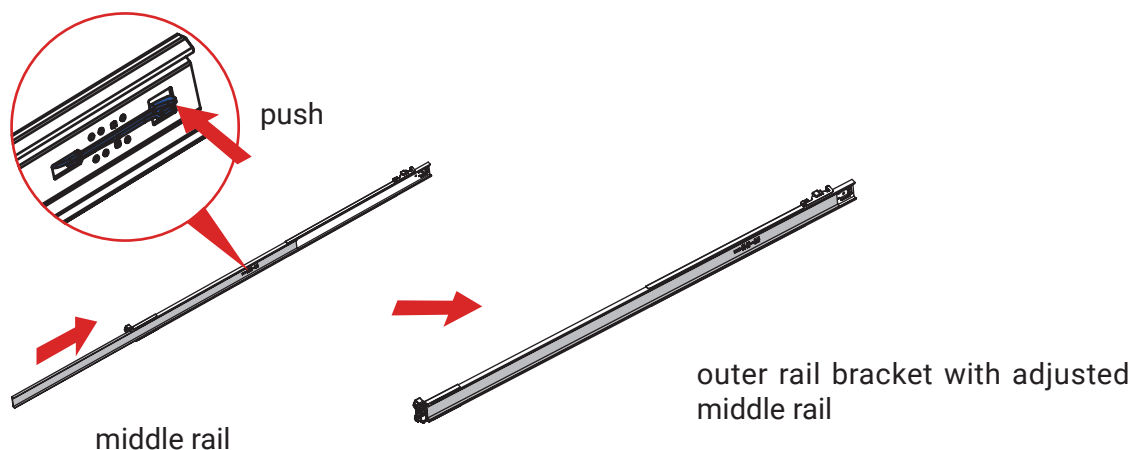
### NOTE

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

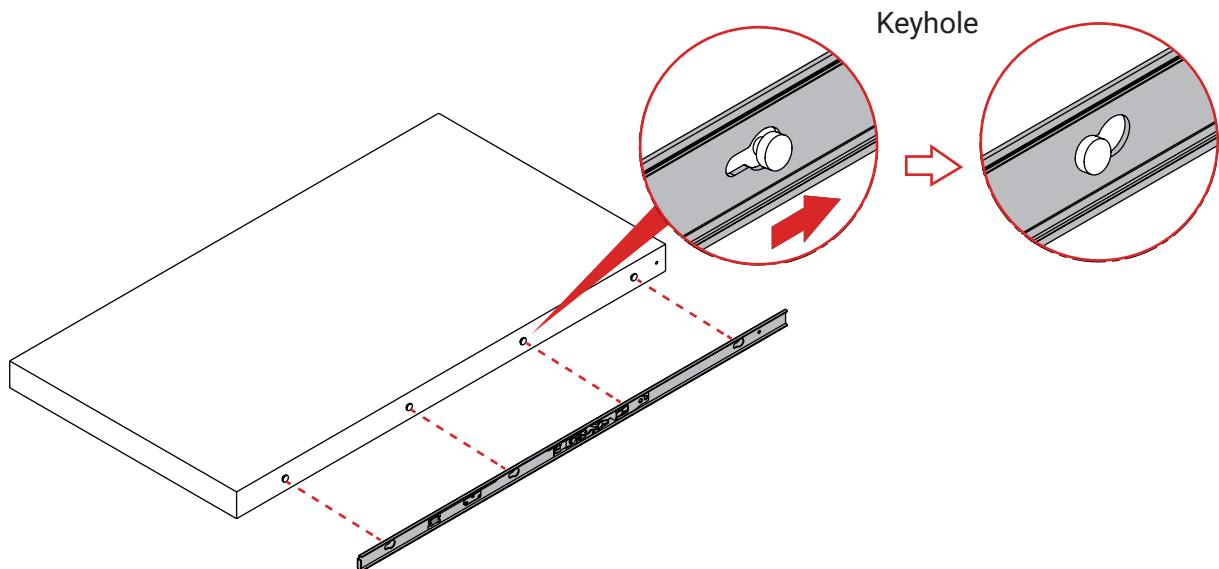
1. Pull the inner rail out of the slide rail until it clicks.
2. Detach the inner rail completely from the slide rail by pulling the white tab forward.



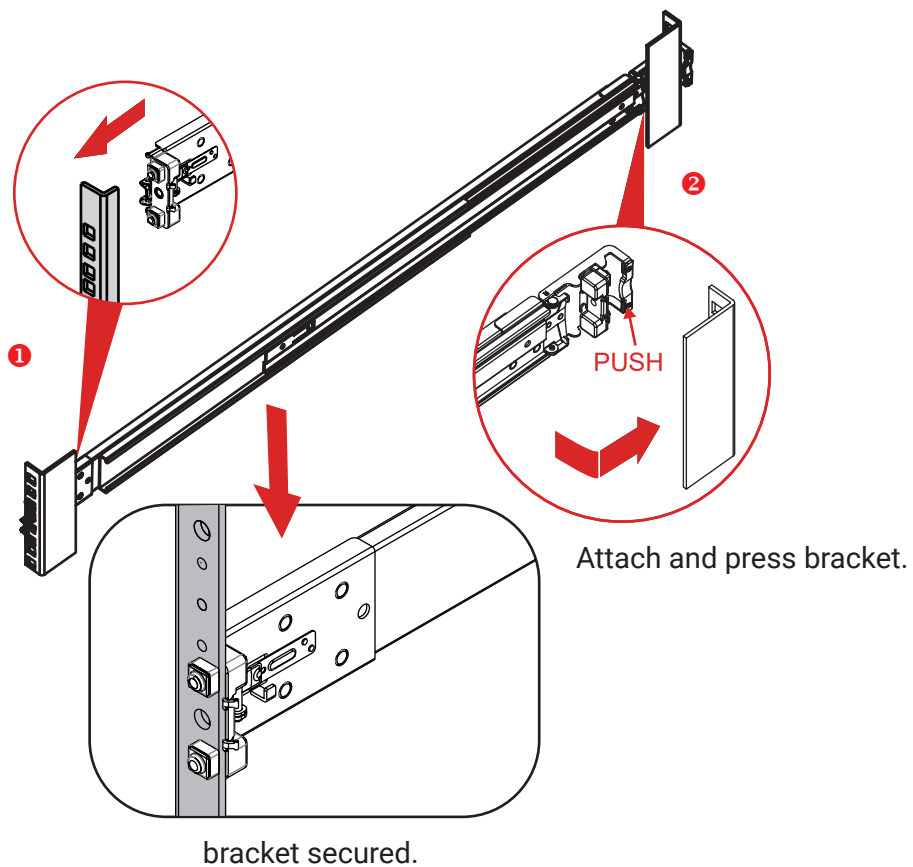
3. After the inner rail is dislodged, adjust the middle rail back to its original position by pushing the tab on the middle rail.



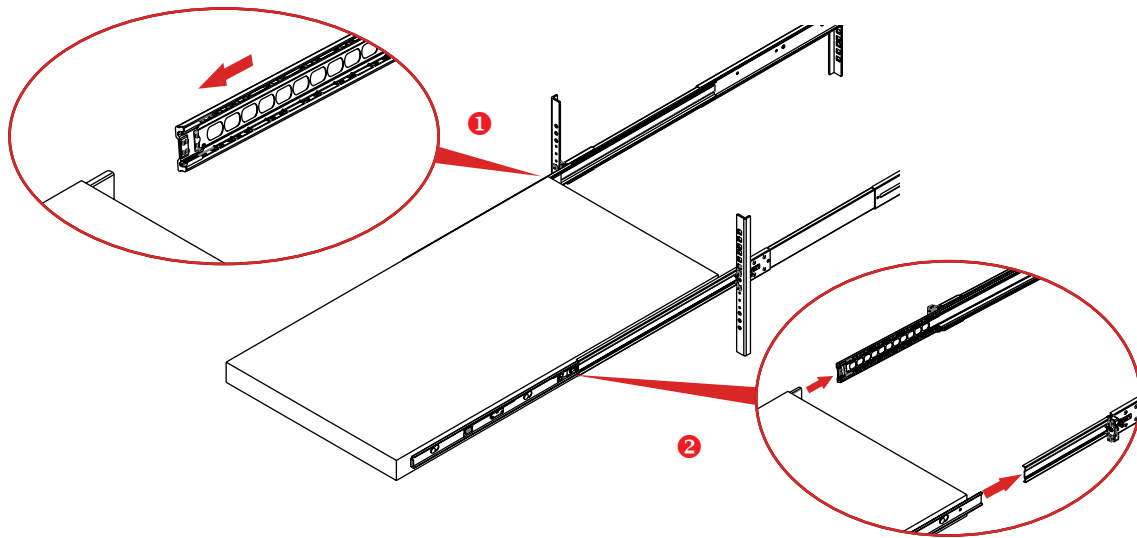
4. Lock the keyholes and install the inner rail onto the system barebone.



5. Continue installing the outer rail bracket to the mounting frame. Attach the outer rail assembling to the frame and press the bracket to form a rack on both ends. Repeat to fully mount the bracket assembly on the other side.

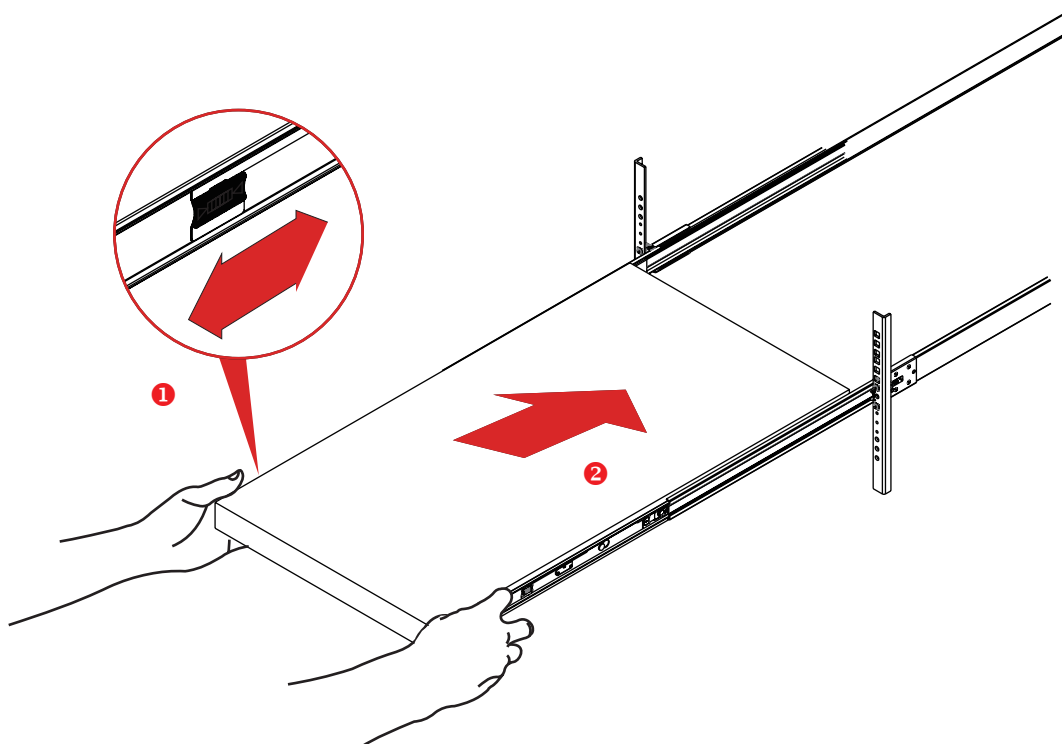


6. Pull out the middle channel until the ball bearing retainer is locked forward.

**NOTE**

Verify ball bearing retainer is locked forward.

7. Slide the release tab and push barebone into rack. Make sure the barebone is completely installed onto the rack.



This information is provided for professional technicians only.

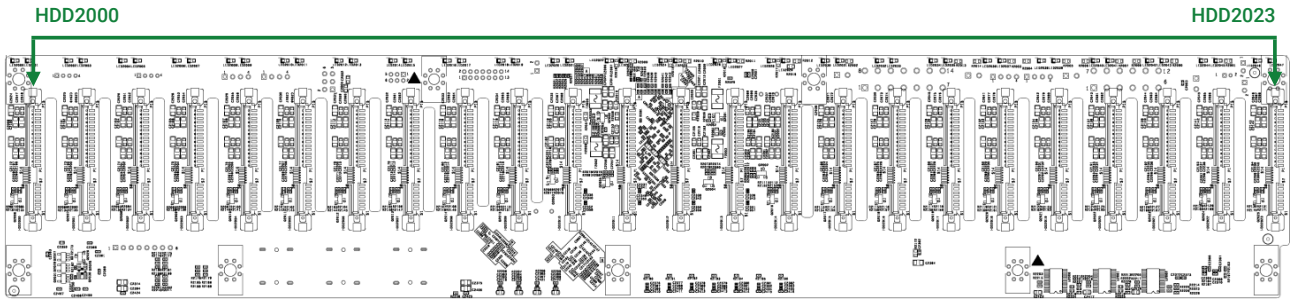
# Chapter 3. Hardware Specifications

This chapter illustrates a detailed instruction guide on hardware specifications.

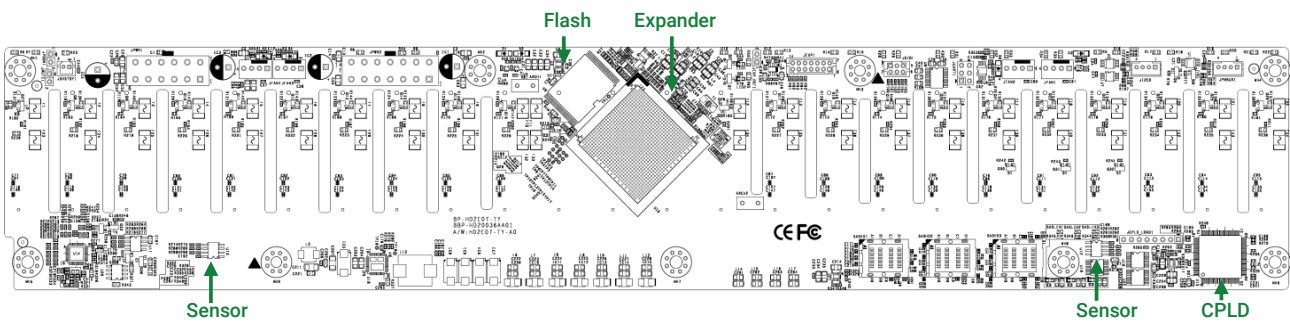
## 3.1 Disk Drive Backplane: 24 Bay (SKU1)

### 3.1.1 Placement

Top view

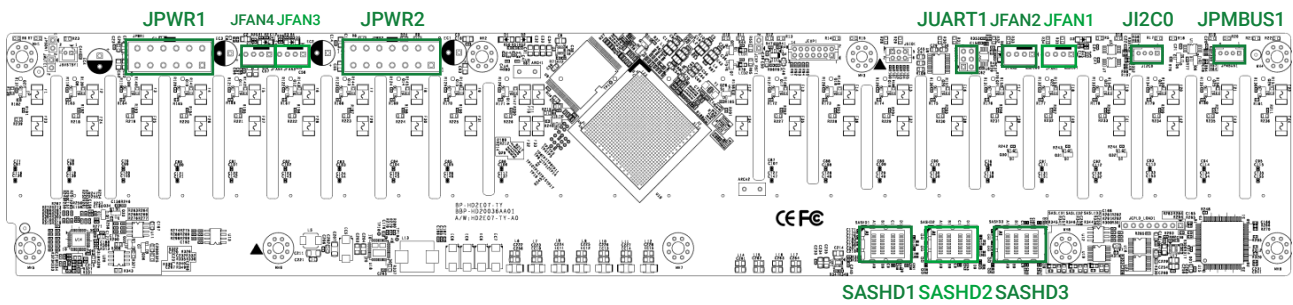


Bottom view

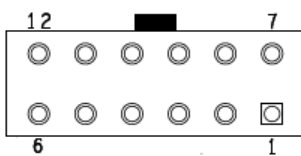


Connector	Description	Comments
HDD2000~HDD2023	SFF-8680 SAS Receptacle	HDD Connector

### 3.1.2 Connector

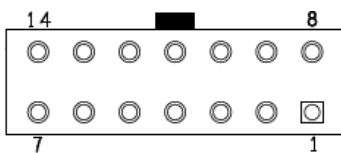


#### Power Connector (JPWR1)



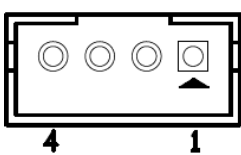
+12V	7	1	GND
+12V	8	2	GND
+3V3	9	3	GND
+5V	10	4	MUTE_L
+5VSTBY	11	5	PSU_N1
PS_ON_L	12	6	+3V3_PWM_EN#

#### Power Connector (JPWR2)



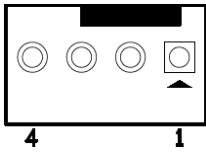
+12V	8	1	GND
+12V	9	2	GND
+12V	10	3	GND
+12V	11	4	GND
+5V	12	5	GND
+5V	13	6	GND
+5V	14	7	GND

#### PMBUS Connector (JPMBUS1)



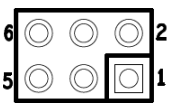
GND	1
EXP_CTL_SCL4	2
EXP_CTL_SDA4	3
N/A	4

FAN Connector (JFAN1~JAN4)



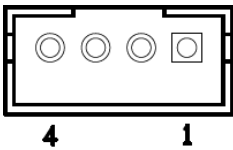
GND	1
+12V	2
TACH	3
PWM	4

Control for Expander (JUART1)



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

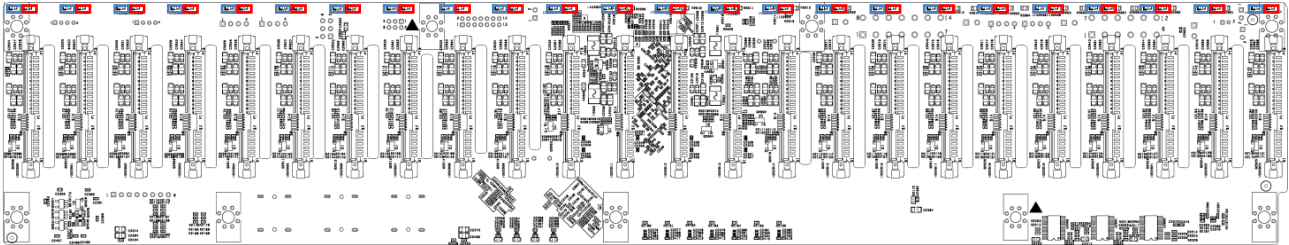
I2C Connector (JI2C0)



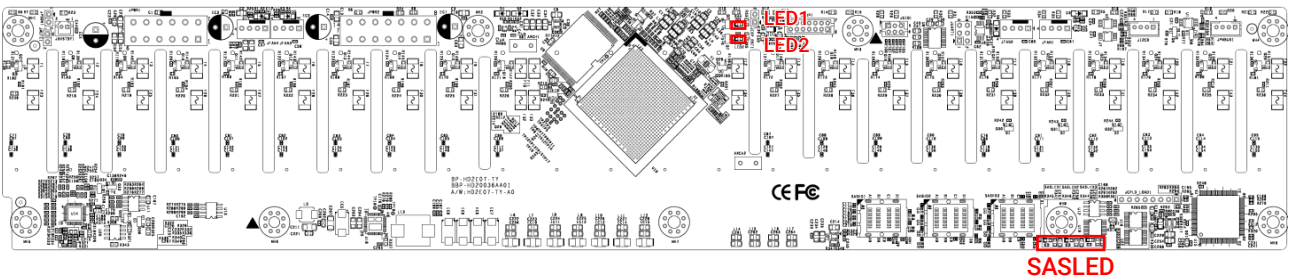
GND	1
EXP_CTL_SCL0	2
EXP_CTL_SDA0	3
N/A	4

### 3.1.3 LED Indicator

Top view



Bottom view



Indicator	Color	Behavior
HDD Activity LEDs	Blue (On)	HDD present
	Blue (Blinking)	HDD activity detected or Locate HDD(slow)
	Off	HDD no connect or power off
HDD Fault/Status LEDs	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
	Red (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
	Red (On)	Set by any of the following bits: 1. RQST MISSING 2. RQST FAULT

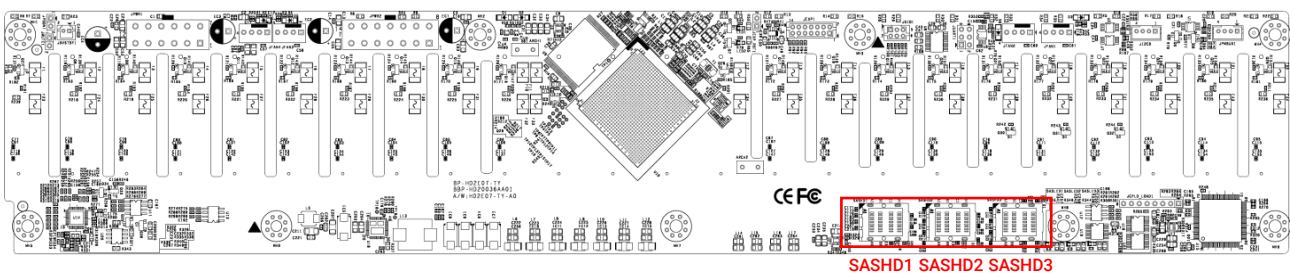
Indicator	Color	Behavior
MINISASHD Link Status (SASLED1-3)	Blue (On)	Link up
	Blue (Blinking)	Activity detected
	Off	Link down
Expander Blink (LED1)	Blue (Blinking)	Expander alive, 0.0833Hz (12 seconds per cycle)
Expander Heart Bit (LED2)	Blue (Blinking)	Expander FW running

### 3.1.4 PHY Mapping

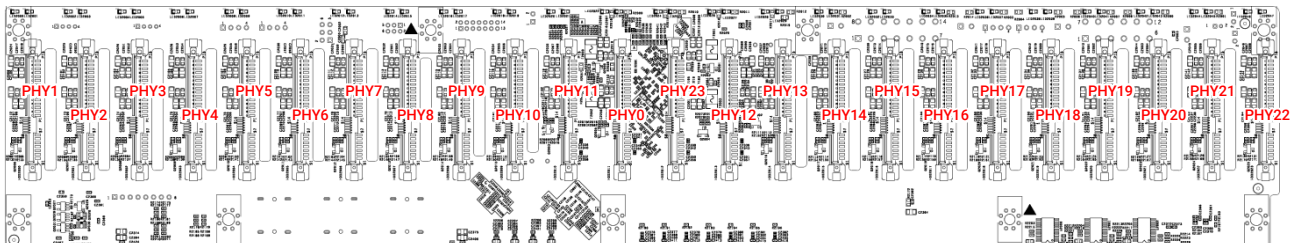
MINISASHD PHY Definition

Connector	Phys	Comments
SASHD1	28.29.30.31	SFF-8643
SASHD2	32.33.34.35	SFF-8643
SASHD3	24.25.26.27	SFF-8643

SAS PHY - MINISASHD



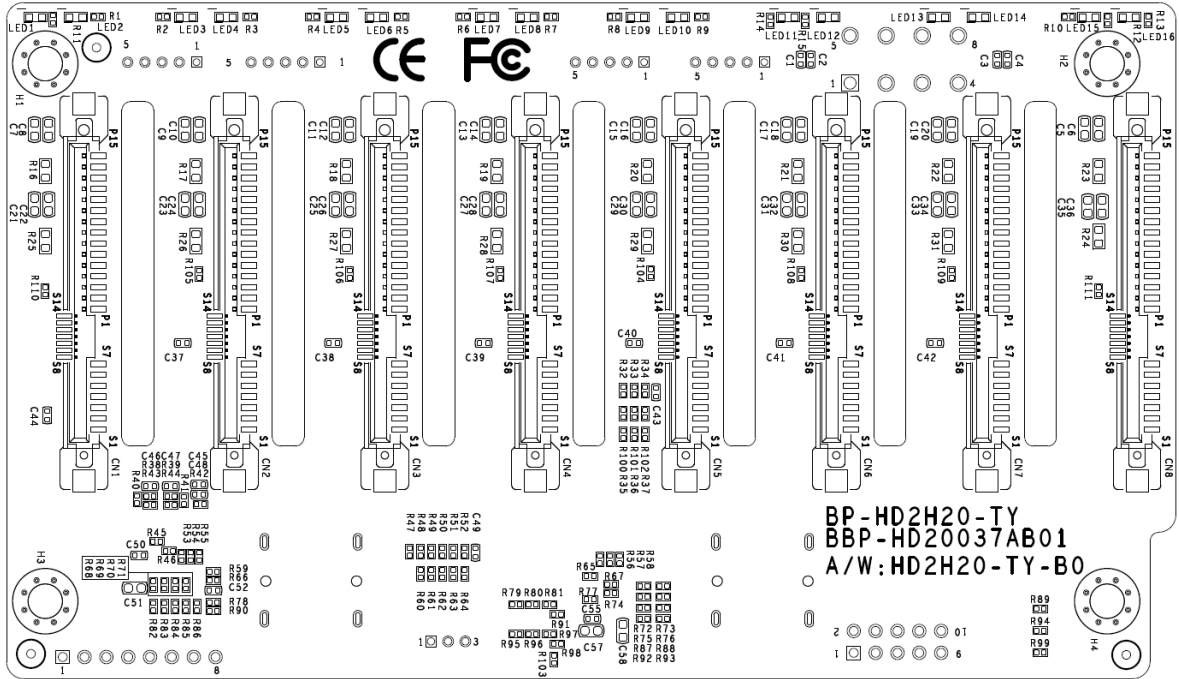
SAS PHY - HDD Receptacle



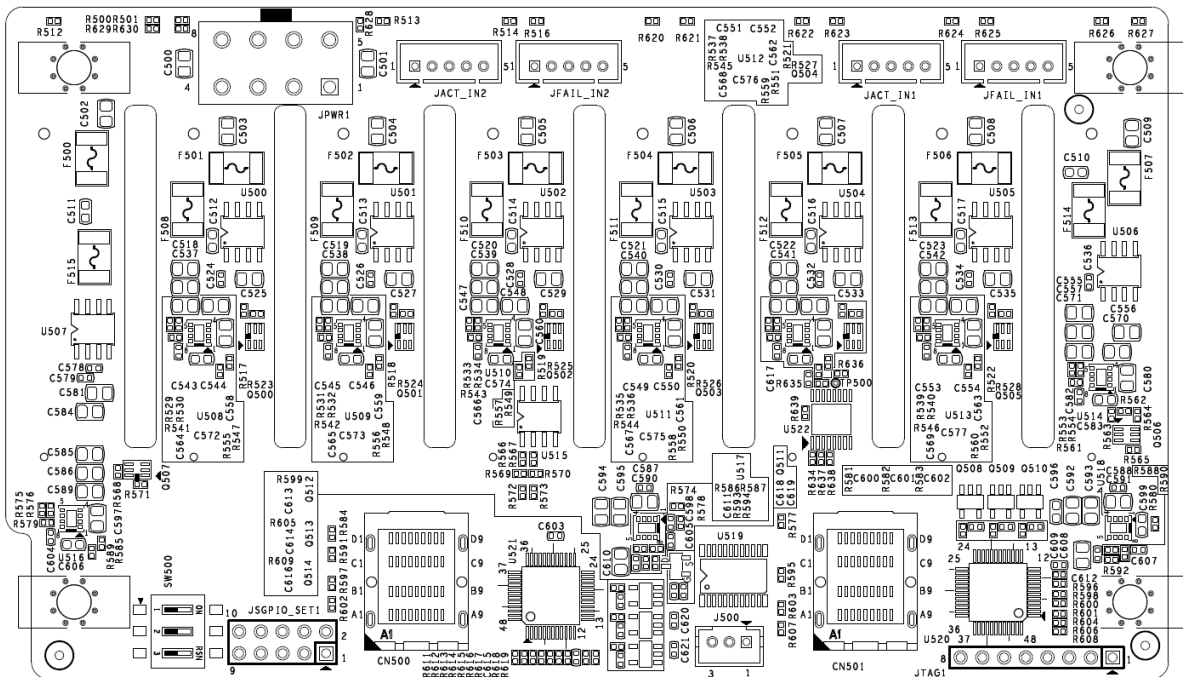
## 3.2 Disk Drive Backplane: 8 Bay (SKU2/3/4)

### 3.2.1 Placement

Top view

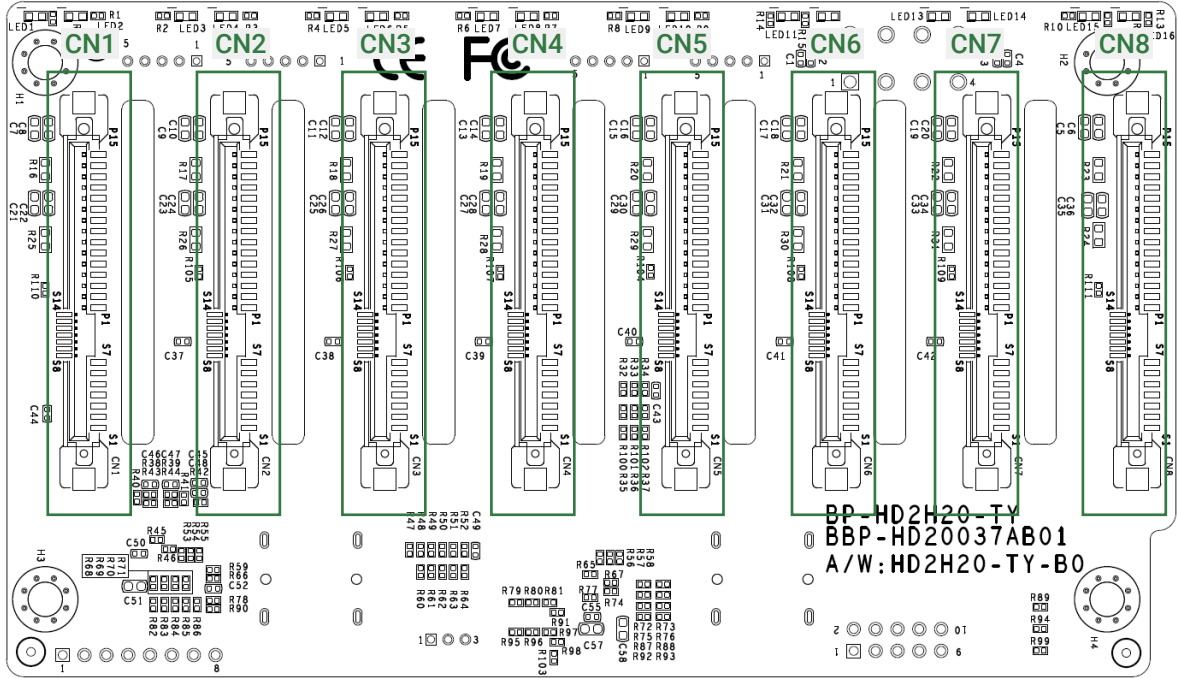


Bottom view

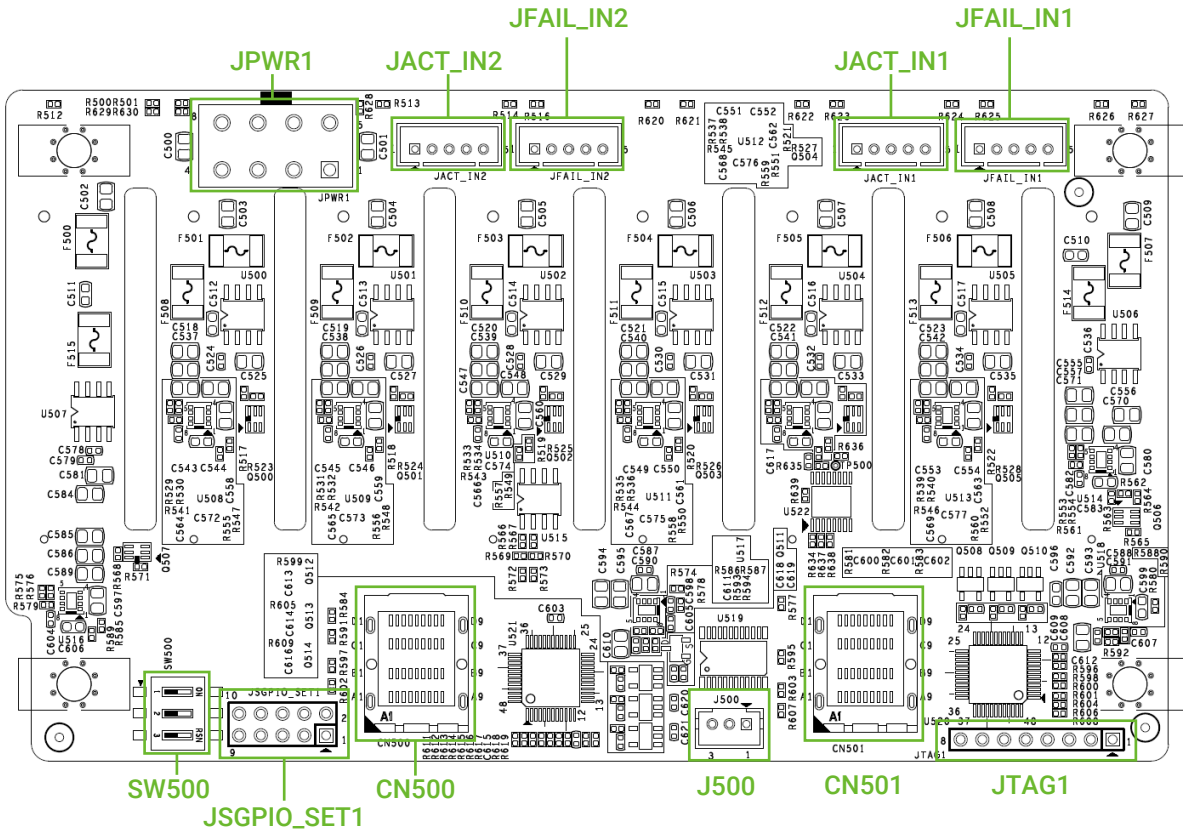


### 3.2.2 Connector

Top view



Bottom view



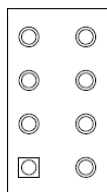
## External connectors Summary

Connector Function	Physical Description	Comments
CN1 ~ CN8	SAS Receptacle	HDD connector
CN500, CN501	SFF-8643 connector vertical	Mini SASHD connector

## Internal connectors Summary

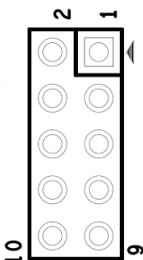
Connector Function	Physical Description	Comments
Power supply (JPWR1)	4 x 2 pin power connector	12V input
Activity LED input (JACT_IN1 ~ 2)	1 x 5 pin box header	External HDD activity LED input
Fail LED input (JFAIL_IN1 ~ 2)	1 x 5 pin box header	External HDD fail LED input
Lattice_ISP (JTAG1)	1 x 8 pin header	CPLD update FW interface
CPLD set (JSGPIO_SET1)	2 x 5 pin header	SFF-8685(SGPIO) decode function jumper setting
I2C (J500)	1 x 3 pin box header	I2C interface

### JPWR1



GND	4	8	P12V
GND	3	7	P12V
GND	2	6	P12V
GND	1	5	P12V

### JSGPIO\_SET1

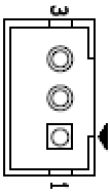


SGPIO_SEL	9	10	GND
SGPIO_EN_N	7	8	GND
EB_SEL	5	6	GND
GND	3	4	FROMHDD
GND	1	2	/E_ACT_SEL

### JSGPIO\_SET1 Function Select Description:

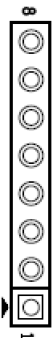
Pin	Status	Description
1,2	Open	Disable External Access LED input.
	Close	Enable External Access LED input.
3,4	Open	Access LED from HDD Pin P11.
	Close	Access LED from SGPIO.
5,6	Open	SGPIO Bit2 is HDD Fail, Bit3 is HDD ID.
	Close	SGPIO Bit2 is HDD ID, Bit3 is HDD Fail.
7,8	Open	Disable SGPIO.
	Close	Enable SGPIO and CPLD Core Power(P1V8).
9,10	Open	Two SGPIO signals from CN501 and CN502, each SGPIO control 4 LEDs.
	Close	One SGPIO signal from CN501 and control 8 LEDs.

J500



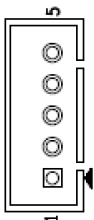
3	SEN_DAT_R
2	SEN_CLK_R
1	GND

JTAG1



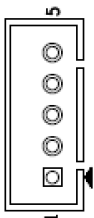
8	TCK1
7	GND
6	TMS1
5	NC
4	NC
3	TDI1
2	TDO2
1	P1V8

JACT\_IN1



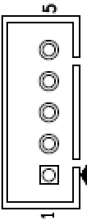
5	/E_ACT_IN3
4	/E_ACT_IN2
3	/E_ACT_IN1
2	/E_ACT_IN0
1	GND

JFAIL\_IN1



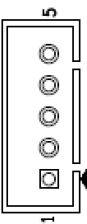
5	/E_FAIL3
4	/E_FAIL2
3	/E_FAIL1
2	/E_FAIL0
1	GND

JACT\_IN2



5	/E_ACT_IN7
4	/E_ACT_IN6
3	/E_ACT_IN5
2	/E_ACT_IN4
1	GND

JFAIL\_IN2



5	/E_FAIL7
4	/E_FAIL6
3	/E_FAIL5
2	/E_FAIL4
1	GND

SW500

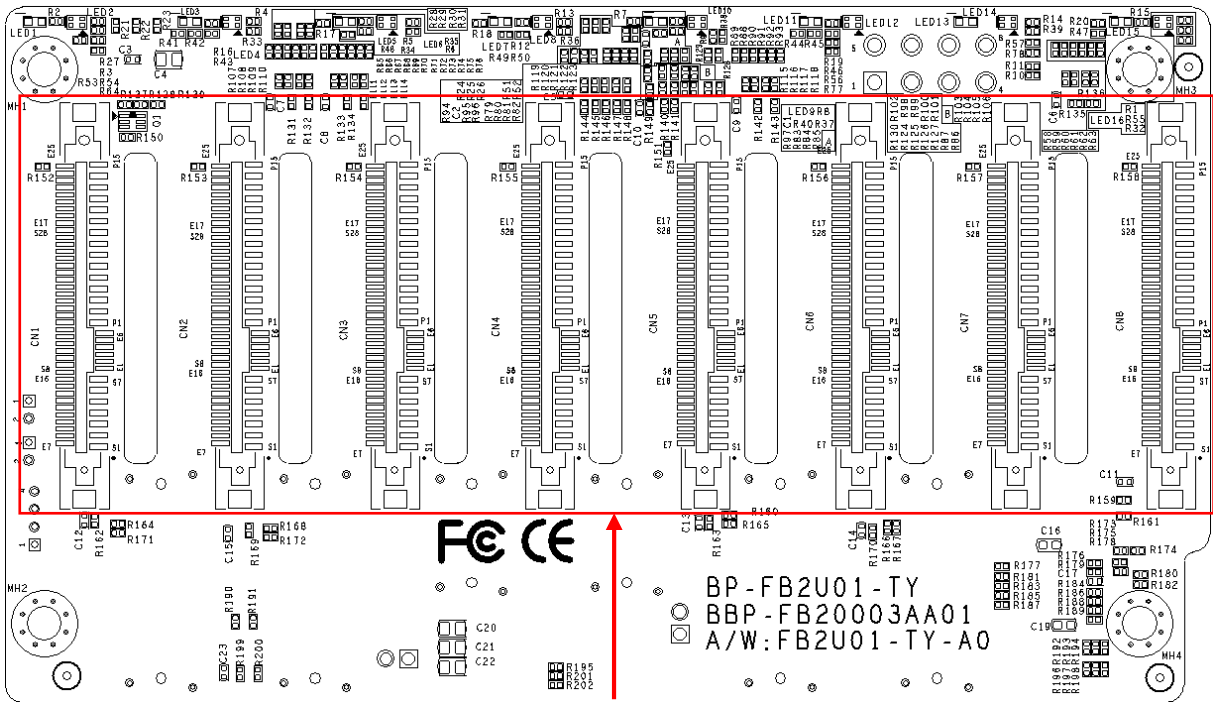


PCA9552 LED address	switch 3-6	switch 2-5	switch 1-4
0xC0	OFF	OFF	OFF
0xC2	OFF	OFF	ON
0xC4	OFF	ON	OFF
0xC6	OFF	ON	ON
0xC8	ON	OFF	OFF
0xCA	ON	OFF	ON
0xCC	ON	ON	OFF
0xCE	ON	ON	ON

### 3.3 Disk Drive Backplane: 8 Bay (SKU3/4/5)

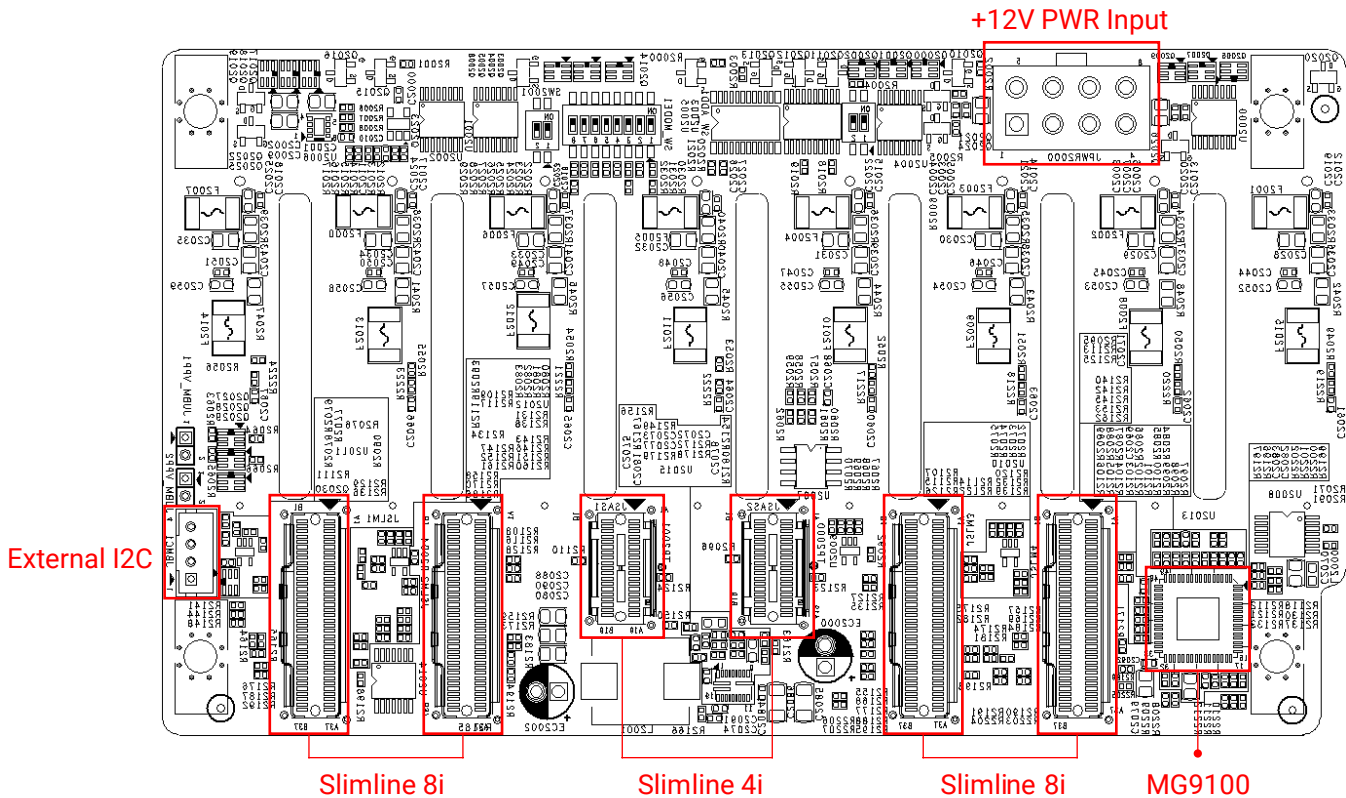
#### 3.3.1 Placement

Top view



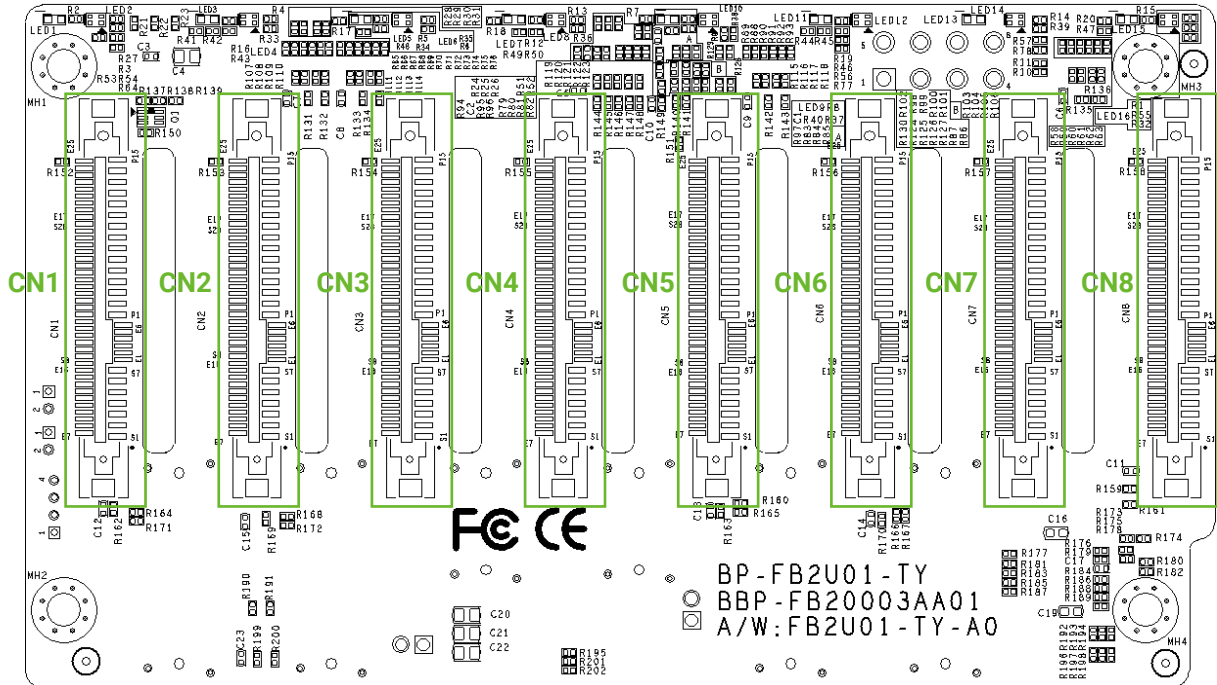
8BAYU.2/SAS Receptacle Connector

Bottom view

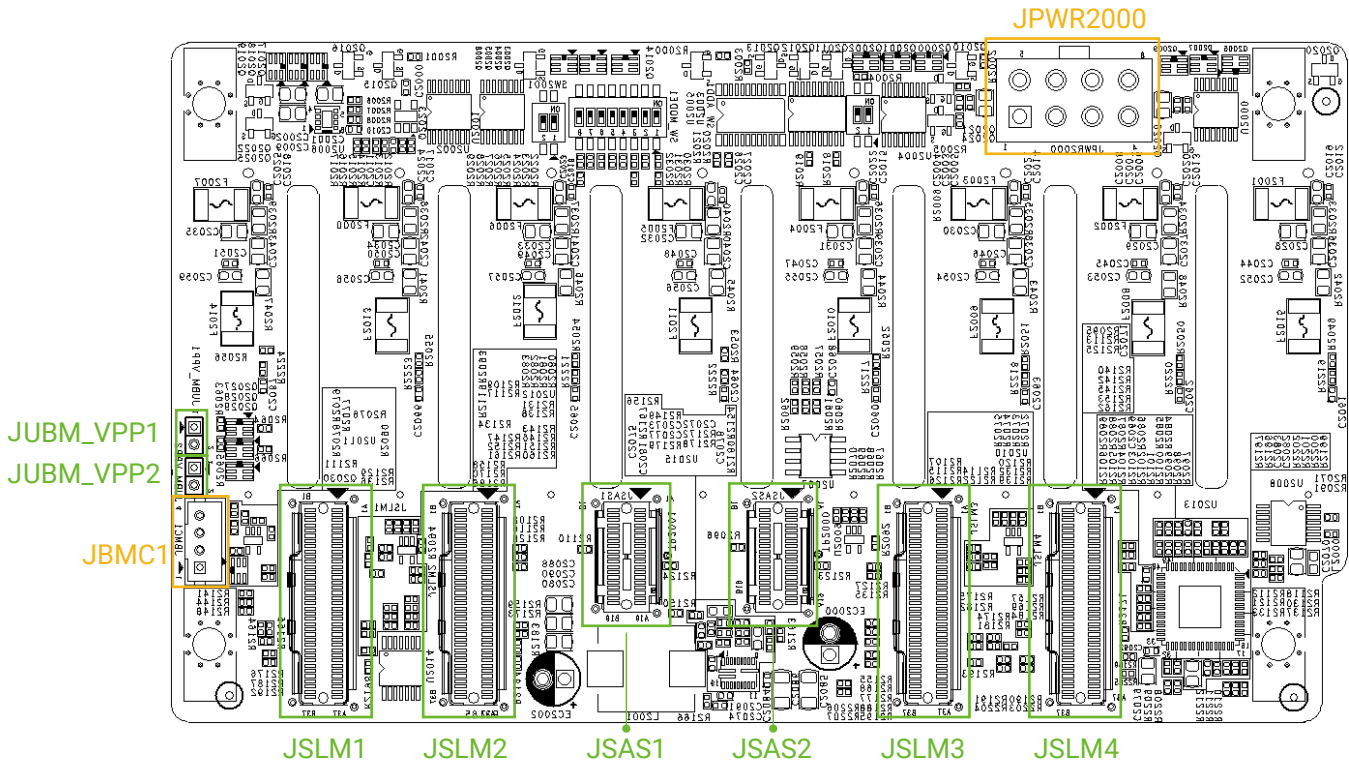


### 3.3.2 Connector

Top view

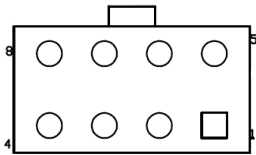


Bottom view



Power Supply (JPWR 2000)

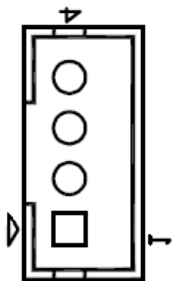
1x4 power connector, PH5.5 / +12V power in, 7A per pin



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

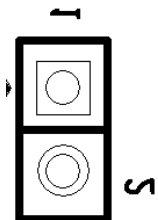
External I2C (JBMC1)

2x4 pin box header, PH2.0



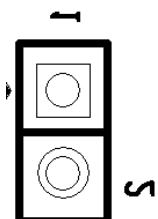
BP_BMC_SDA	3	1	SMB_ALARM_N
BP_BMC_SCL	4	2	GND

JUMB\_VPP1



Open	VPP Operation(default)
Short	UBM Operation

JUBM\_VPP2



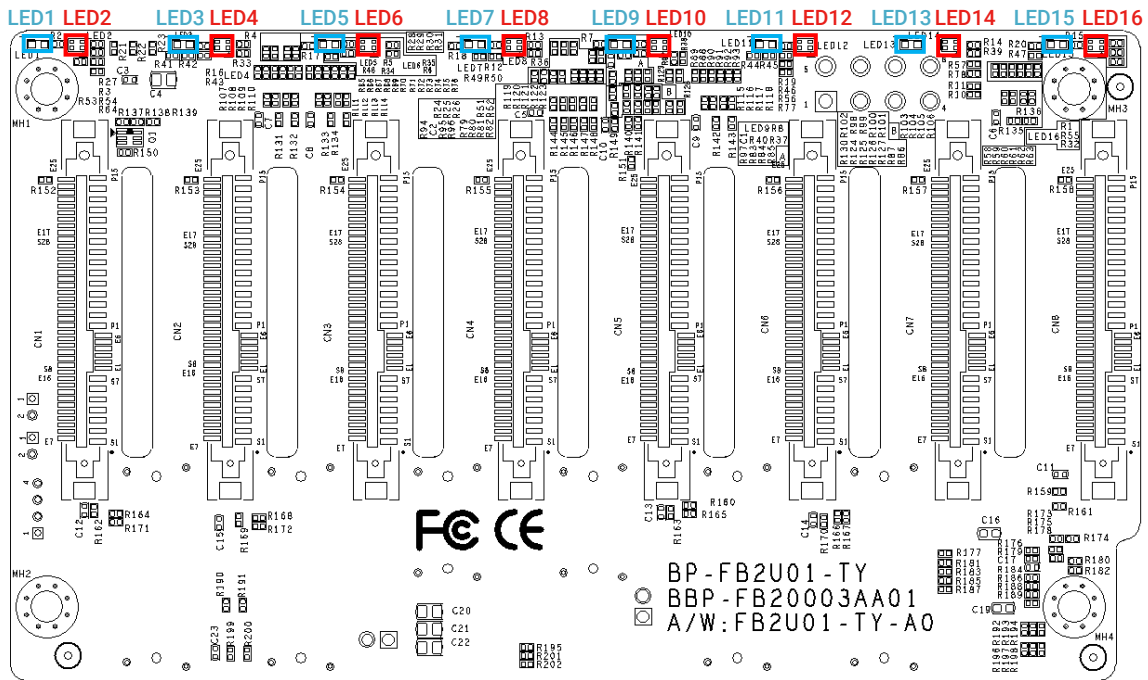
Open	VPP Operation(default)
Short	UBM Operation

- Device Mapping

JSLM1	CN1	NVMe Drive1
	CN2	NVMe Drive2
JSLM2	CN3	NVMe Drive3
	CN4	NVMe Drive4
JSLM3	CN5	NVMe Drive5
	CN6	NVMe Drive6
JSLM4	CN7	NVMe Drive7
	CN8	NVMe Drive8
JSAS1	CN1	SAS Drive1
	CN2	SAS Drive2
	CN3	SAS Drive3
	CN4	SAS Drive4
JSAS2	CN5	SAS Drive5
	CN6	SAS Drive6
	CN7	SAS Drive7
	CN8	SAS Drive8

### 3.3.3 LED Indicator

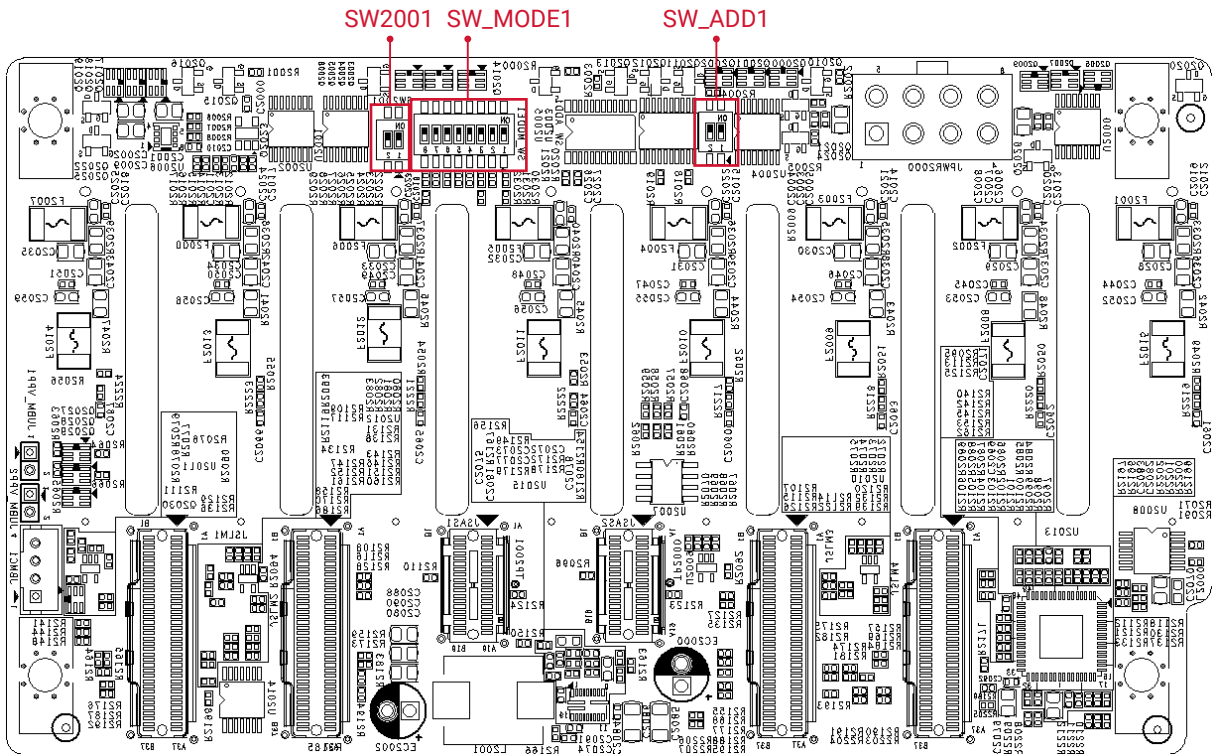
Top view



Indicator	LED	Color	Behavior
HDD1-8 Activity LED	1	Blue (On)	HDD present
	3		
	5		
	7	Blue (Blinking)	HDD activity is detected or External control.
	9		
	11	Off	HDD is not connected.
13			
HDD1-8 Fail LED	2	Yellow (On)	HDD Fault
	4		
	6	Yellow (Blinking)	HDD Rebuild
	8		
	10	Off	Normal
	12		
14			
HDD1-8 Locate LED	2	GEN (On)	HDD Locate
	4		
	6		
	8	Off	Normal
	10		
	12		
14	Off	Normal	
16			

### 3.3.4 DIP-Switch

Bottom view



SW2001



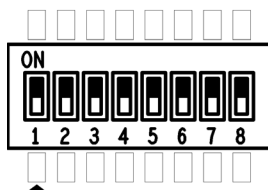
Pin1	Pin2	9100 BMC Address
off	off	0xC6h
on	off	0xC4h
off	on	0xC2h
on	on	0xC0h (Default)

SW\_ADD1



Pin1	Pin2	PCA9548 Address	LM75 Address
off	off	0xE6h	0x96h
on	off	0xE4h	0x94h
off	on	0xE2h	0x92h
on	on	0xE0h (Default)	0x90h (Default)

SW502



SHP0 ID & SHP1 ID Configuration Settings for AMD Mode							
Pin1	Pin2	Pin3	SHP0 SMBUS Address	Pin4	Pin5	Pin6	SHP1 SMBUS Address
off	off	off	0x50h/0x52h (Default)	off	off	off	0x50h/0x52h (Default)
on	off	off	0x54h/0x56h	on	off	off	0x54h/0x56h
off	on	off	0x58h/0x5Ah	off	on	off	0x58h/0x5Ah
on	on	off	0x5Ch/0x5Eh	on	on	off	0x5Ch/0x5Eh
off	off	on	0x60h/0x62h	off	off	on	0x60h/0x62h
on	off	on	0x64h/0x66h	on	off	on	0x64h/0x66h
off	on	on	0x68h/0x6Ah	off	on	on	0x68h/0x6Ah
on	on	on	0x6Ch/0x6Eh	on	on	on	0x6Ch/0x6Eh

VPP ID & VPP1 ID Configuration Settings for INTEL Mode					
Pin1	Pin2	VPP0 SMBUS Address	Pin3	Pin4	VPP1 SMBUS Address
off	off	0x40h/0x42h (Default)	off	off	0x40h/0x42h (Default)
on	off	0x44h/0x46h	on	off	0x44h/0x46h
off	on	0x48h/0x4Ah	off	on	0x48h/0x4Ah
on	on	0x4Ch/0x4Eh	on	on	0x4Ch/0x4Eh

Vendor ID Configuration Settings		
Pin7	Pin8	Vendor
off	off	UMB Only
on	off	AVAGO
off	on	AMD
on	on	INTEL (Default)

# Chapter 4. Technical Support



[www.aicipc.com](http://www.aicipc.com)

## Taiwan, Global Headquarters

**Address:** No. 152, Section 4,  
Linghang N. Rd, Dayuan District,  
Taoyuan City 337, Taiwan  
**Tel:** +886-3-433-9188  
**Fax:** +886-3-287-1818  
**Sales Email:** [sales@aicipc.com.tw](mailto:sales@aicipc.com.tw)  
**Support Email:** [support@aicipc.com](mailto:support@aicipc.com)

## Shanghai, China

**Address:** Room 215, Building 4, No.471  
Guiping Road, Xuhui District, Shanghai City,  
200233 China  
**Tel:** +86-21-54961421  
**Sales Email:** [sales@aicipc.com.cn](mailto:sales@aicipc.com.cn)  
**Support Email:** [support@aicipc.com](mailto:support@aicipc.com)

## Moscow, Russia

**Address:** No.500, 5th Floor, 5th Entrance,  
32A, Khoroshevskoye Shosse, Moscow,  
123007  
**Tel:** +7-4997019998  
**Sales Email:** [support-ru@aicipc.com.tw](mailto:support-ru@aicipc.com.tw)  
**Support Email:** [rma.russia@aicipc.com.tw](mailto:rma.russia@aicipc.com.tw)

## North California, United States

**Address:** 48531 Warm Springs  
Boulevard Suite 404 Fremont, CA  
94539, United States  
**Tel:** +1-510-573-6730  
**Sales Email:** [sales@aicipc.com](mailto:sales@aicipc.com)  
**Support Email:** [support@aicipc.com](mailto:support@aicipc.com)

## South California, United States

**Address:** 21808 Garcia Lane  
City of Industry, CA 91789,  
United States  
**Toll free:** + 1-866-800-0056  
**Tel:** +1-909-895-8989  
**Fax:** +1-909-895-8999  
**Sales Email:** [sales@aicipc.com](mailto:sales@aicipc.com)  
**Support Email:** [support@aicipc.com](mailto:support@aicipc.com)

## New Jersey, United States

**Address:** 322 Route 46 West Suite 100  
Parsippany, NJ 07054 United States  
**Tel:** +1-973-884-8886  
**Fax:** +1-973-884-4794  
**Sales Email:** [sales@aicipc.com](mailto:sales@aicipc.com)  
**Support Email:** [support@aicipc.com](mailto:support@aicipc.com)

## Houten, The Netherlands

**Address:** Peppelkade 58, 3992AK, Houten,  
The Netherlands  
**Tel:** +31-30-6386789  
**Fax:** +31-30-6360638  
**Sales Email:** [sales@aicipc.nl](mailto:sales@aicipc.nl)  
**Support Email:** [support@aicipc.com](mailto:support@aicipc.com)

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.  
AIC® website: <https://www.aicipc.com/en/faq>.