Godì 1.8 E2D-NV8 DLC

User Manual

Document Version: V1.0
Release Date: April 2026

Applicable Model

Model	Maintenance	Cooling
BRB-GI1-408-E2D-S2102	Front & Rear access	Direct Liquid Cooling

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Technical Support

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Preface

Abstract

This manual describes the Godì 1.8E2D-NV8 DLC server's appearance, features, performance parameters, and software and hardware compatibility, providing in- depth information of the product.

Intended Audience

This user guide is intended for:

- 2CRSi pre-sales engineers
- Pre-sales engineers of channel partners
- Enterprise pre-sales engineers

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
DANGER	A potential for serious injury, or even death if not properly handled
WARNING	A potential for minor or moderate injury if not properly handled
CAUTION	A potential loss of data or damage to equipment if not properly handled
IMPORTANT	Operations or information that requires special attention to ensure successful installation or configuration
NOTE	Supplementary description of document information

Revision History

Version	Date	Description of Changes
V1.0	04/21/2026	Initial release

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1. Specifications

System	**SKU**	BRB-GI1-408-E2D-S2102
	Model	Godì 1.8E2D-NV8 DLC
	Form factor	19-inch 4U
	Dimension	448mm x 900mm x 175 (W x D x H) 17.6" x 35.4" x 6.9" (W x D x H)
	Cooling Technology	Direct-to-chip cooling
Storage	**Internal type**	1x M.2 (PCIe5.0 x4); Form factor: 22110/2280 [CPU1] 1x M.2 (PCIe5.0 x2); Form factor: 22110/2280 [CPU1]
	External type	8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays [PCIe switch]
	RAID Controller	Add-in card or VROC in option
Motherboard	**CPU**	Supports Intel Xeon 6500P/6700E/6700P Series Processors Dual Socket E E2 (LGA 4710). Max TDP up to 350W
	Chipset	System on chip
	Expansion slots	Rear : 4 Single-slot FHHL PCIe5.0 x16 [PCIe switch] *The ambient temperature is limited to 30°C when NVIDIA BlueField-3 DPUs/SuperNIC are installed.*
	TPM	TPM 2.0 header
	BMC	ASPEED AST2600
Memory	**Total slots**	32x (8 channels per CPU, up to 2 DIMMs per channel)
	Capacity	Up to 8TB, from RDIMM: Max 128GB module, MRDIMM: Max 64GB module
	Memory type	RDIMM : 6400MT/s (1DPC), 5200MT/s (2DPC) MRDIMM: 8000MT/s (1DPC only and Intel processors with P-cores)
GPU	**Architecture**	NVIDIA HGX B300 NVL8
Network	**Onboard**	1x 1GbE Management Port dedicated to the IPMI 2x 10GbE LAN 8x NVIDIA ConnectX-8 OSFP Ports (800Gb/s)
I/O	**Front**	2x 10GbE RJ45 1x IPMI RJ45 (default) 2x USB 3.2 Gen1 1x VGA 1x Power button LED / UID button / NMI button / Reset button 1x Storage activity LED / System status LED
	Rear	8x NVIDIA ConnectX-8 OSFP Ports (800Gb/s) 1x IPMI RJ45, shared with front panel
Management Solution	**Software**	WebGUI, IPMI 2.0 and RESTful APIs (Redfish)
	Out of band remote management	iKVM module
Power Supply	**Type**	5+5 Redundant 3000W 80 PLUS Titanium Power Supply
	Power rating	~14 kW at 100% Load
Operating Environment	**Operating Temperature**	Operation temperature: 10°C ~ 35°C (50°F ~ 95°F)
	Non-operating Temperature	Non operation temperature: -40°C ~ 70°C (40° ~ 158°F)
	Operating Relative Humidity	8% to 80% (non-condensing)
	Non-operating Relative Humidity:	20% ~ 90% (non-condensing)
Warranty	2CRSi hardware warranty includes a one-year parts and labor with return to 2CRSi selling entity. Customers may purchase an extended warranty of up to 3 years on parts and labor with different support levels. Please contact 2CRSi at support@2crsi.com or reach your sales point of contact for complete warranty details including limitations and transferability. 2crsi.com/global-location	

2. Server Overview

The Godì 1.8 E2D-NV8 DLC is a 4U dual-socket liquid-cooled server powered by 6th Gen Intel Xeon series processors and NVIDIA Blackwell Ultra GPUs.
Designed for high-density computing, it combines high core counts, exceptional memory bandwidth, and ultra-high I/O throughput to deliver efficient, high-performance computing for demanding workloads.
Built with reliability and quality at its core, the system is engineered to perform consistently across a wide range of deployment scenarios. In addition, it offers outstanding performance, extensive expansion capabilities, broad ecosystem compatibility, and simplified operations, management, and maintenance.

2.1. Features

2.1.1 Expandability and Performance

- Features the 6th Gen Intel Xeon Scalable processors (Emerald Rapids), with up to 64 cores per processor (128 threads), a TDP up to 350 W, boost frequencies up to 4.8 GHz, an L3 cache up to 320 MB, and support for up to 8-channel DDR5 memory plus PCIe Gen5, delivering exceptional processing performance.
    - Up to 2 processors, 128 cores and 256 threads per system, maximizing concurrent execution of massively multithreaded workloads.
    - Increased L2 cache. Each core has a private L2 cache of 2 MB.
    - Intel Turbo Boost Technology enables intelligent self-adaptation, allowing CPU cores to exceed the processor TDP at peak workload and run at the maximum frequency.
    - Intel Hyper-Threading Technology allows every processor core to run multiple threads (up to 2 threads per core) concurrently, improving the performance of multi-threaded applications.
    - Intel Virtualization Technology (Intel VT-x) integrates hardware-level virtualization features, allowing the operating system to better leverage

hardware for virtualized workloads.

- Advanced Vector Extensions 512 (AVX-512) instruction set significantly improves floating-point performance for compute-intensive workloads.
- Up to 88 lanes of PCIe Gen5 per processor for high-speed I/O and expansion.

- 32 DIMM slots (8 channels per CPU, up to 2 DIMMs per channel)
  - Up to 8 DDR5 ECC RDIMMs (6400 MT/s) for superior speed, high availability, and a memory capacity up to 4 TB per socket, with a theoretical memory bandwidth of 409 GB/s per socket.
- 4 standard PCIe Gen5 slots for FHHL cards

2.1.2 Expandability Availability and Serviceability

- SSDs are much more reliable than traditional HDDs, increasing system uptime.
- The UID and status LEDs for fault diagnosis on the front panel, and the BMC Web GUI indicate the status of key components and quickly lead technicians to failed (or failing) components, simplifying maintenance, speeding up troubleshooting, and enhancing system availability.
- The IPMI management port on the front (or rear) panel enables you to directly access the IPMI and supports local O&M, improving O&M efficiency.
- The onboard BMC monitors system parameters in time and sends alerts in advance, so that technicians can take corresponding measures in time to ensure stable operation and minimize system downtime.
- Intelligent control technology combined with cutting-edge air-cooling technology creates an optimum working environment for stable running of the server.

For documentation of the system (such as product marketing materials, user manuals, drivers, firmware, and product certifications), visit 2CRSi website: https://2crsi.com

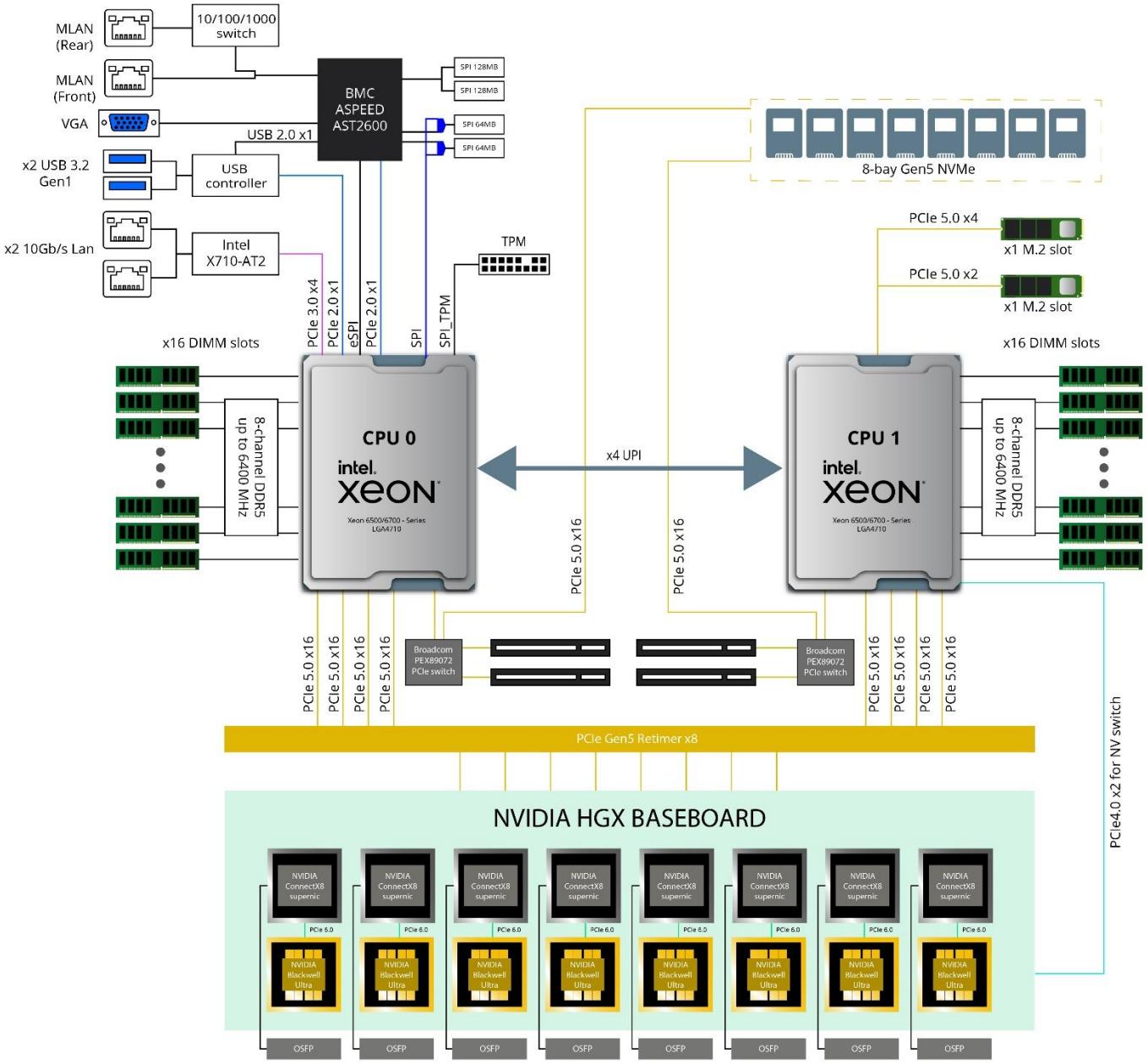
2.1.3 Manageability and Security

- The BMC integrated in the server can monitor the server status and manage the server remotely.
- Network Controller Sideband Interface (NC-SI) feature allows a network port to serve as a management port and a service port. This feature can be enabled/disabled in the IPMI Web GUI or BIOS. Mode *Failover* by default.
- Industry-standard Unified Extensible Firmware Interface (UEFI) improves the efficiency of setup, configuration, and updates, and simplifies error handling.
- Trusted Platform Module (TPM) 2.0 and Trusted Cryptography Module (TCM) provide advanced encryption.
- Intel Trust Domain Extensions (TDX) protect virtual machines by encrypting and isolating their memory from the hypervisor and host OS. This enables confidential computing, ensuring workloads remain secure even on untrusted platforms.
- Firmware update mechanisms based on digital signatures prevent unauthorized

firmware updates.

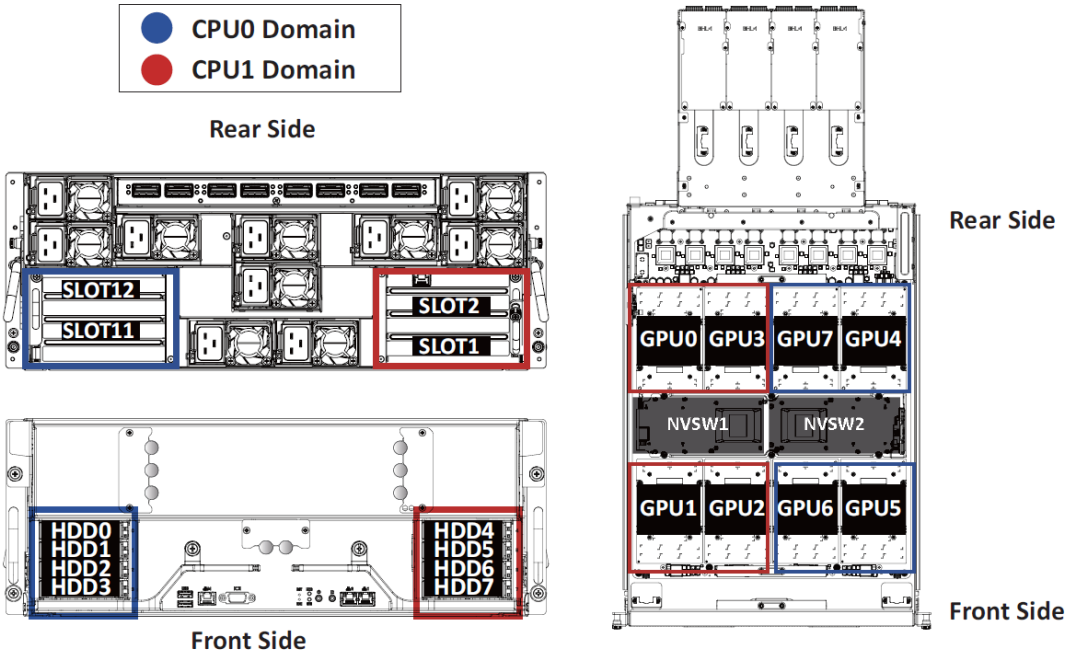
- UEFI Secure Boot protects the system from malicious boot loaders.
- Hierarchical password protection in BIOS ensures system boot and management security.
- BIOS Secure Flash reduces attacks from malicious software on the BIOS flash region.
- A dual-image mechanism for the BMC and BIOS allows firmware recovery in case of damage detected to the latter.
- BMC Secure Boot protects BMC from malicious tampering.
- Flexible BMC access control policies improve BMC management security.

2.2. System Block

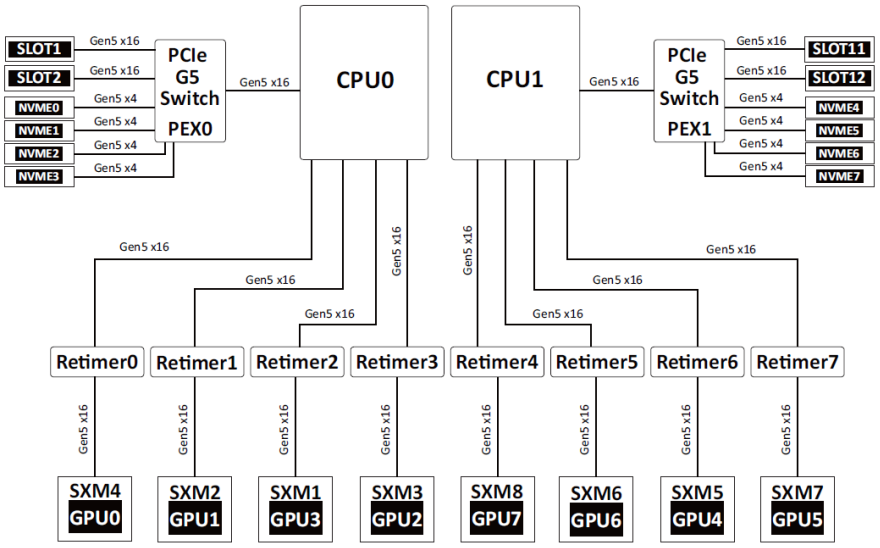


3. Hardware Description

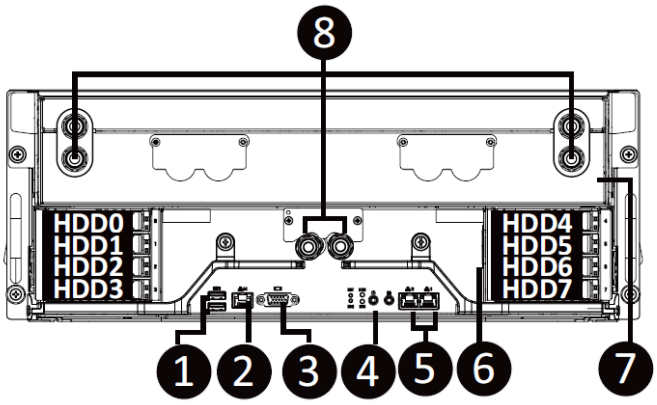
3.1. PCIe Block Diagram



CPU Domain	Physical SLOT Num (Redfish Inventory)	GPU Ordering (BIOS/Driver)
CPU0	SXM1	GPU3
	SXM2	GPU1
	SXM3	GPU2
	SXM4	GPU0
CPU1	SMX5	GPU4
	SXM6	GPU6
	SXM7	GPU5
	SXM8	GPU7



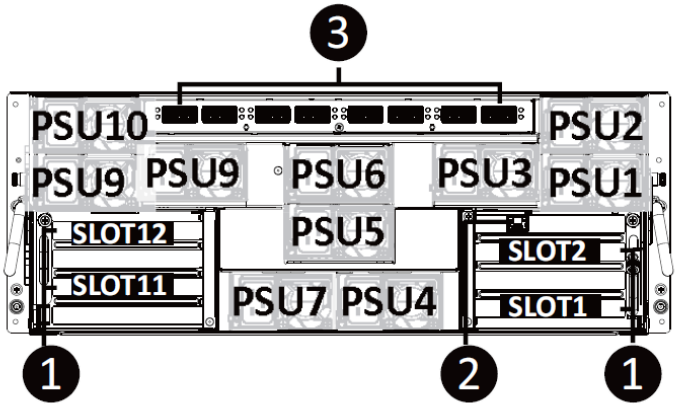
3.2. System Front panel



No.	Description
1	USB 3.2 Gen1 x2
2	Management LAN Port(1)
3	VGA Port
4	Front Panel LEDs and Buttons
5	LAN Port x2
6	Motherboard Tray
7	GPU Tray
8	Coolant Pipe slot

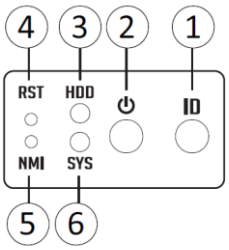
(1) Only one Management LAN (front side or rear) can be used at a time.

3.3. System Rear Panel



No.	Description
1	PCIe Card Cage x 2
2	Management LAN Port
3	OSFP ConnectX-8 Port x8 (Numbering from right to left)

3.4. Front Panel LEDs and Buttons



No.	Name	Color	Status	Description
1	ID Button with LED	Blue	On	System identification is active.
		N/A	Off	System identification is disabled.
2	Power Button with LED	Green	On	Indicates the system is powered on.
		N/A	Off	System is not powered on or in ACPI S5 state (power off).
3	NMI Button	--	--	Press this button for the server to generate a NMI to the processor. If multiple-bit ECC errors occur, the server will effectively be halted.
4	Reset Button	--	--	Press this button to reset the system.
5	System Status LED	Green	Solid On	System is operating normally.
		Amber	Solid On	Critical condition. It may indicate: - System fan failure - System temperature
		Amber	Blink	Non-critical condition. It may indicate: - Redundant power module failure - Temperature and voltage issue - Chassis intrusion
		N/A	Off	System is not ready. It may indicate: - POST error - NMI error - Processor or terminator missing
6	HDD Status LED	Green	On	Indicates locating the HDD.
		Green	Blink	Indicates accessing the HDD.
		Amber	On	Indicates HDD error.
		Green/Amber	Blink	Indicates HDD rebuilding.
		N/A	Off	Indicates no HDD access or no HDD error.

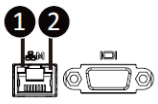
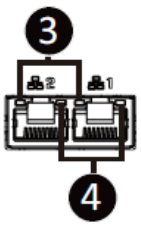
UID Button
Press the UID button to toggle the front panel UID LED and the baseboard UID LED on and off. Use this button to locate the server working on behind a rack of servers.

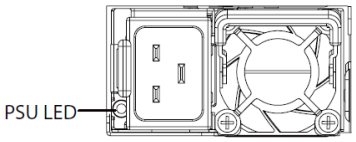
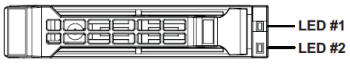
Power Button
Press the power switch button to toggle the system power on and standby/sleep modes. To remove all power from the system completely, disconnect the power cord from the server.

Reset Button
When the system is completely unresponsive, press the system reset button to reboot the server without shutting it off and initialize the system.

NMI (Non-Maskable Interrupt) Button
Press the NMI button with a paper clip or pin to generate a non-maskable interrupt (NMI) and to put the server in a halt state for examination.

Status LED Definitions

Icon	LED and Button	Description
⏻	Power Button and LED	Power LED: • Off = No power • Solid green = Power-on state • Long press the button for over 6 seconds to force a shutdown from the power-on state. Notes: Follow the prompt under the OS to shut it down. Short press the power button to power on the system in standby state.
UID	UID/BMC RST Button and LED	The UID LED is used to identify the device to be operated. • Off = System unit not identified • Solid blue = System unit identified
	System Status LED	• Green (Solid On) = system operating normally • Amber: ○ Solid On = Critical condition (e.g. system fan failure) ○ Blink = Non-critical condition (e.g. redundant power module failure) • N/A (Off) = System not ready
	IPMI LAN Port LED	 (1) Speed LED: • Yellow (On) = 1Gbps data rate • Green (On) = 100Mbps data rate • N/A (Off) = 10Mbps data rate (2) Link/Activity LED: • Green (On) = Link between system and network or no access • Blinking Green = Data transmission or reception is occurring. • N/A (Off) = No data transmission or reception is occurring.
	10G LAN Port LED (LAN1& 2)	 (3) Speed LED: • Yellow (On) = 10Gbps data rate • Green (On) = 1Gbps data rate • N/A (Off) = 100Mbps data rate (4) Link/Activity LED: • Green (On) = Link between system and network or no access • Blinking Green = Data transmission or reception is occurring.

<table>
<tr><td></td><td></td><td></td><td>• N/A (Off) = No data transmission or reception is occurring.</td></tr>
<tr><td rowspan="2"> </td><td rowspan="2">Power Status LED</td><td colspan="2"> 
</td></tr>
<tr><td colspan="2">PSU LED:
• OFF = No AC power to all PSUs.
• 1Hz Green Blinking = AC present / only standby on / Cold redundant mode
• 2Hz Green Blinking = Power supply firmware updating mode
• Amber (Solid On):
○ AC cord unplugged or AC power lost; with a second power supply in parallel still with AC input power
○ Power supply critical event causing shut down: failure, OCP, OVP, fan failure and UVP
• 1Hz Amber Blinking = Power supply warning events where the power supply continues to operate: high temp, high power, high current and slow fan
• Green = Normal</td></tr>
<tr><td> </td><td>Hard Drive Tray LED</td><td colspan="2"> 

<table>
<tr><th colspan="2">RAID SKU</th><th>LED #1</th><th>Locate</th><th>HDD Fault</th><th>Rebuilding</th><th>HDD Access</th><th>HDD Present (No Access)</th></tr>
<tr><td rowspan="4">No RAID configuration (via HBA)</td><td rowspan="2">Disk LED (LED on Back Panel)</td><td>Green</td><td>ON(*1)</td><td>OFF</td><td></td><td>BLINK (*2)</td><td>OFF</td></tr>
<tr><td>Amber</td><td>OFF</td><td>OFF</td><td></td><td>OFF</td><td>OFF</td></tr>
<tr><td rowspan="2">Removed HDD Slot (LED on Back Panel)</td><td>Green</td><td>ON(*1)</td><td>OFF</td><td></td><td>--</td><td>--</td></tr>
<tr><td>Amber</td><td>OFF</td><td>OFF</td><td></td><td>--</td><td>--</td></tr>
<tr><td rowspan="4">RAID configuration (via HW RAID Card or SW RAID Card)</td><td rowspan="2">Disk LED</td><td>Green</td><td>ON</td><td>OFF</td><td></td><td>BLINK (*2)</td><td>OFF</td></tr>
<tr><td>Amber</td><td>OFF</td><td>ON</td><td>(Low Speed: 2 Hz)</td><td>OFF</td><td>OFF</td></tr>
<tr><td rowspan="2">Removed HDD Slot</td><td>Green</td><td>ON(*1)</td><td>OFF</td><td>(*3)</td><td>--</td><td>--</td></tr>
<tr><td>Amber</td><td>OFF</td><td>ON</td><td>(*3)</td><td>--</td><td>--</td></tr>
</table>
<table>
<tr><th>LED #2</th><th>HDD Present</th><th>No HDD</th></tr>
<tr><td>Green</td><td>ON</td><td>OFF</td></tr>
</table></td></tr>
</table>

3.5. Power supplies

This system supports up to ten hot-swappable power supply units to ensure stable and continuous operation. The chassis is designed to accommodate N+N redundancy, allowing the system to remain fully functional even if six PSUs fail or are removed for maintenance.

The server is compatible with power supplies up to 3000 W, depending on the configuration and regional power input. Actual power capacity may vary based on PSU model and input voltage.

Key Features :

- Up to 10 PSUs for high-availability configurations.
- N+N redundancy support for uninterrupted operation.
- Hot-swappable power modules—PSUs can be replaced without shutting down the server (when redundancy is active).
- Auto-sensing input voltage (depends on PSU model).
- Efficiency-certified power modules (80 PLUS Platinum/Titanium depending on options).
- Internal load balancing automatically distributes power across installed PSUs.

3.6. Network

- There are 2 LAN ports (10Gbps RJ45) and two dedicated management ports (O*nly one Management LAN (front side or rear) can be used at a time*).
- The PCIe slots support PCIe NICs. Users can select the cards as needed.

  For specific NIC options, consult your local 2CRSi sales representative or refer to **Error! Reference source not found.**.

4. System Components

4.1. Server Top Cover

Removing the Server Top Cover

CAUTION

- **Before removing the top covers, power off the server and unplug the power cord.**
- **The system must be operated with the chassis top covers installed to ensure proper cooling.**
- **Front top cover and rear top cover can be removed and installed separately.**

---

1. Loosen the screw on the locking tab and press the button to unlock the front top cover.
2. Push the front top cover toward the FRONT of the chassis to release it from the locked position. Lift up and remove the cover.
3. Hand-release the thumbscrews on the rear side of the chassis.
4. Push the rear top cover toward the REAR of the chassis to release it from the locked position. Lift up and remove the cover.

Installing the Server Top Cover

1. Lower the front top cover on the chassis, making sure the side latches align with the cutouts. Slide the cover toward the REAR of the chassis.
2. Press down the locking tab and tighten the screw to secure the cover.
3. Lower the rear top cover on the chassis, making sure the side latches align with the cutouts. Slide the cover toward the FRONT of the chassis.
4. Hand-tighten the thumbscrews on the rear side of the chassis.

4.2. Hard Drive

CAUTION

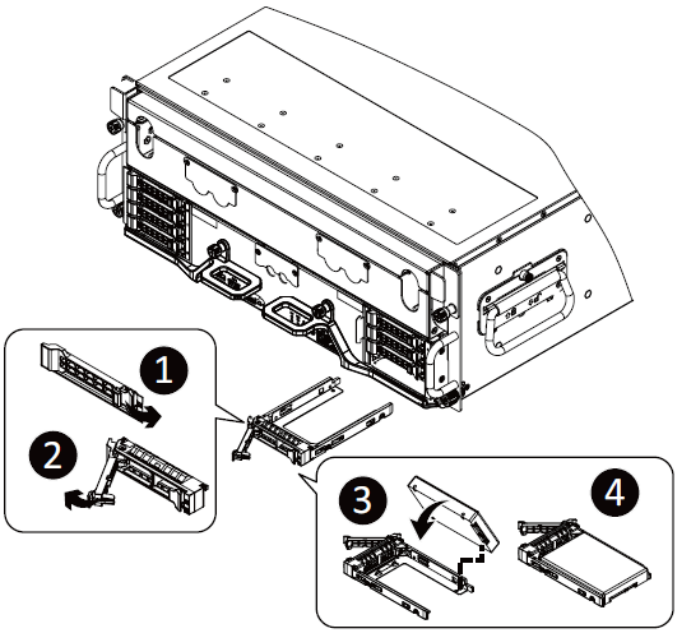
- **Read the following guidelines before you begin installing the hard disk drive:**
  - **Take note of the HDD tray orientation before sliding it out.**
  - **The tray will not fit back into the bay if it is inserted incorrectly.**
  - **Make sure that the hard disk drive is connected to the connector on the backplane.**

Removing Hard Drive Tray from the Chassis

1. Press the locking lever latch.
2. Open the lever.
3. Pull the drive tray out.

Installing Hard Drive

1. Press the release button.
2. Extend the locking lever.
3. Pull the locking lever in the direction indicated to remove the HDD tray.
4. Align the hard disk drive with the positioning stud on the HDD tray.
5. Slide the hard disk drive into the HDD tray.
6. Reinsert the HDD tray into the slot and close the locking lever.



4.3. Removing and Installing the GPU Tray

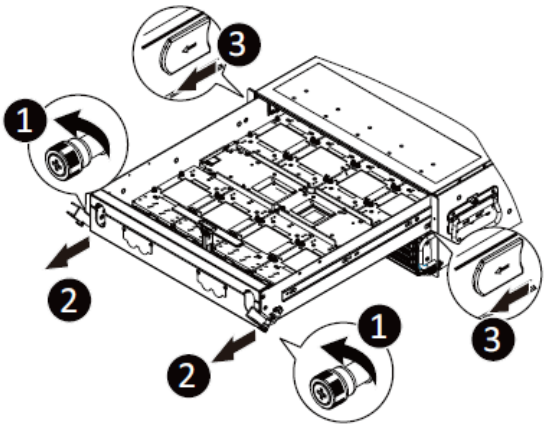
CAUTION

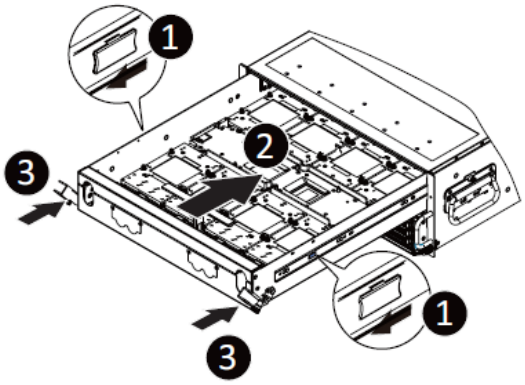
- **Before you remove or install the GPU Tray:**
  - **Make sure the system is not turned on or connected to AC power**

Follow these instructions to remove/install the GPU tray:

1. Loosen the top thumbnail screw securing the handles on both sides of the system.
2. Pull the grip handles on both sides of the system slide the tray to the front of the system at the same time to pull out the tray.
3. Slide the white latch on both sides of the tray rail and carefully remove the GPU tray.
4. To reinstall the GPU tray, align it with the rails on both sides and push the blue latches on each side of the tray rail backward to slide it into the system. Then, reverse steps 1-2 to secure the GPU tray in position.

NOTE: Push the handle back only after the GPU tray is fully inserted into the system





4.4. Removing and Installing the Motherboard Tray

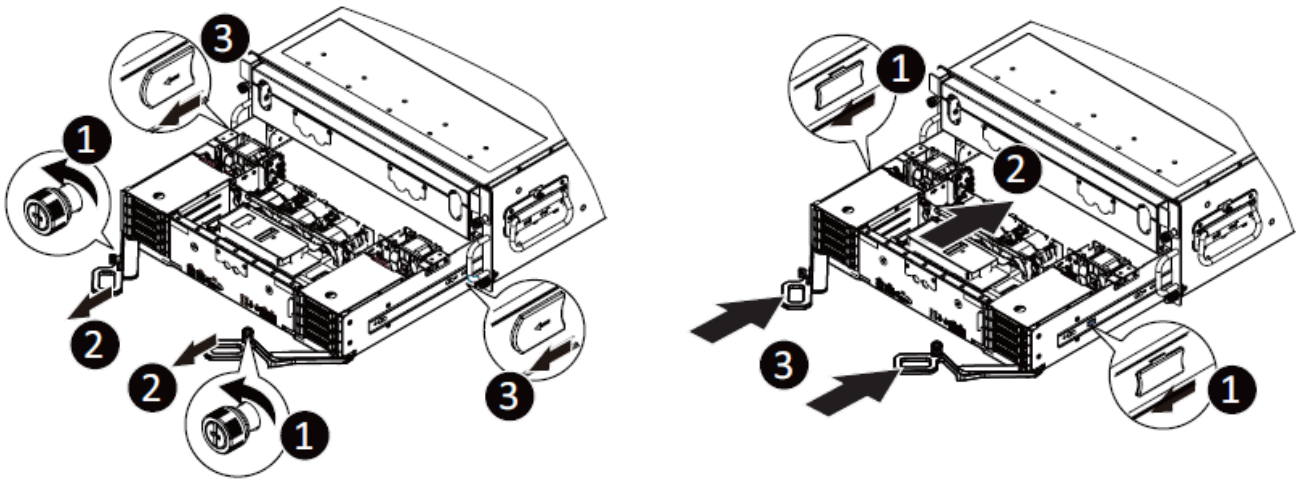
CAUTION

- **Before you remove or install the Motherboard Tray:**
  - **Make sure the system is not turned on or connected to AC power**

Follow these instructions to remove/install the motherboard tray:

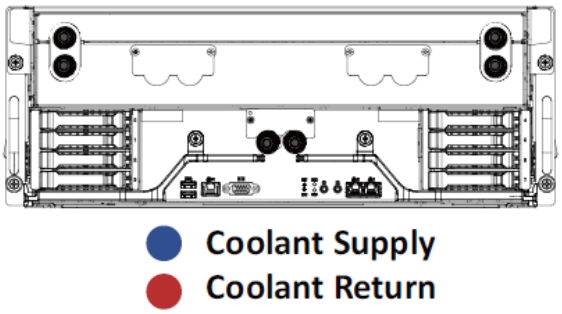
1. Loosen the top thumbnail screw securing the handles on both sides of the system.
2. Pull the grip handles on both sides of the system slide the tray to the front of the system at the same time to pull out the tray.
3. Slide the white latch on both sides of the tray rail and carefully remove the motherboard tray.
4. To reinstall the motherboard tray, align it with the rails on both sides and push the blue latches on each side of the tray rail backward to slide it into the system. Then, reverse steps 1-2 to secure the motherboard tray in position.

NOTE: Push the handle back only after the motherboard tray is fully inserted into the system.



4.5. Liquid Cooling Assembly Information

The liquid cooling assembly is designed to capture heat from the processors and GPUs in the node and cool the components. The coolant flow for the assembly is produced by the six disconnects at the front of the server chassis.



Liquid Cooling Specifications

The cold plate assembly in the liquid cooling assembly mounts directly on top of the processors, memory module, and SXM module.
The retention mechanism for installation on top of the processors is integrated into the cold plate. The liquid coolant contained within the tubes is a mixture of demineralized water and propylene glycol with the following beneficial features: Anti-Freeze, Anti-Corrosion and Anti-Bacterial. The following table lists the features and specifications of the liquid cooling assembly.

Specification	Value
Cold plate material	Copper CDA110
Thermal Interface Material	SHIN ETSU X23-7921-5-S (CPU) Honeywell (PCM) (GPU) Honeywell (PCM) (NVSWITCH)
Operating Liquid Temperature	Minimum: 5°C Maximum: 70°C

Operating Air temperature	10°C to 35°C *[Note] The ambient temperature is limited to 30°C when NVIDIA® BlueField®-3 DPUs/SuperNIC™ are installed.*
Coolant Flow Rate	@45°C coolant 2.0 LPM (CPU DIMM) 15 LPM Typical (GPU+NVSwitch+CX8+OSFP) [Note] If operation with 45°C coolant is required, please contact Gigabyte for detail information.
Connector Type	GPU: 2IN 2OUT (Stabuli SCG06 PLUG) CPU: 1IN 1OUT (Stabuli SCG06 PLUG)
Operating Humidity	8% to 80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20% to 95% (non-condensing)
Storage Temperature	-40°C to 70°C
Storage Humidity	5 - 90%
DRY WEIGHT	
CPU	~ 2.6 KG
GPU	~ 6.4 KG
NVSwitch	~ 2.8 KG

IMPORTANT

To ensure system stability and prevent condensation, when the relative humidity exceeds 50%, the coolant inlet temperature must be higher than the dry-bulb temperature and it should not exceed 45°C.

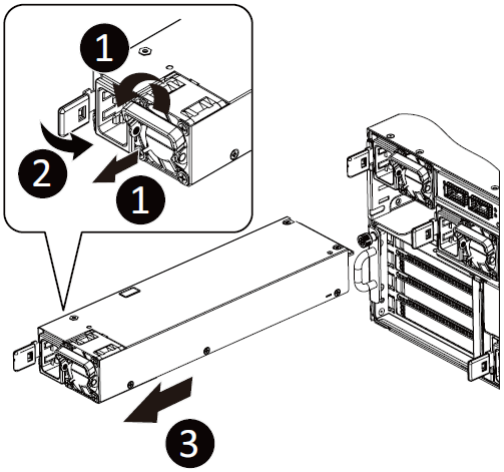
4.6. Power Supply

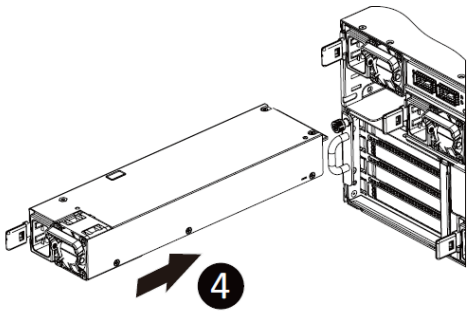
CAUTION

- **Before replacing the power supply, power off the server, unplug the power cord, and disconnect all wiring from the power supply.**
- **The redundant system does not require powering down the server.**

Follow these instructions to replace the power supply:

1 Flip up and then grasp the power supply handle.
2 Press the retaining clip on the right side of the power supply unit in the direction indicated.
3 Pull out the power supply unit using the handle.
4 Insert the replacement power supply unit firmly into the chassis. Connect the AC power cord to the replacement power supply.
5 Repeat steps 1-4 for replacement of the second power supply.





4.7. Add-in Card

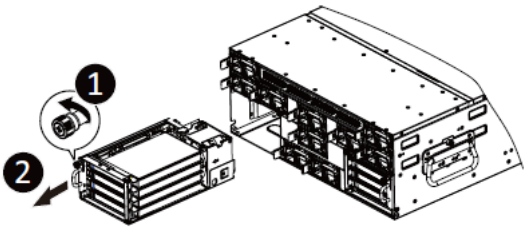
CAUTION

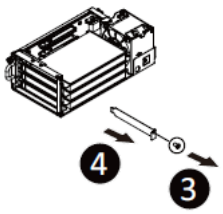
- Install an add-in card to the chassis only when having a riser-card installed on the server motherboard.
- **Before installing the add-in card, power off the server and unplug the power cords.**
- Left riser-card bracket and right riser-card bracket can be removed independently.

Follow these instructions to install a PCIe card:

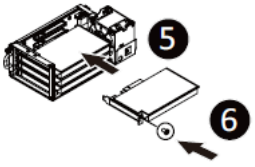
Left PCIe Card cage:

1 Press the release latch.
2 Simultaneously pulling up the tray handle for the PCIe card cage.
3 Pull the cage out of the system.
4 Orient the PCIe card with the riser guide slot and push in the direction of the arrow until the PCIe card sits in the PCIe card connector.
NOTE: Some riser brackets allow for single or multiple PCIe cards.
Repeat steps 3-4 as necessary.
5 Secure the PCIe card with the screw.
6 Repeat steps 1-2 to install the PCIe card cage into the system.



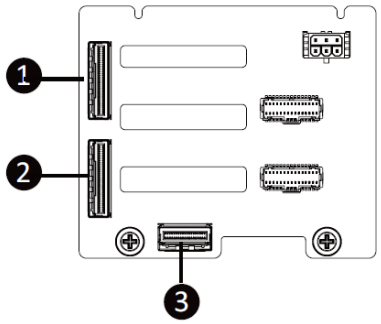


Right PCIe Card cage: proceed the same manner.



4.8. Backplane Board Storage Connector

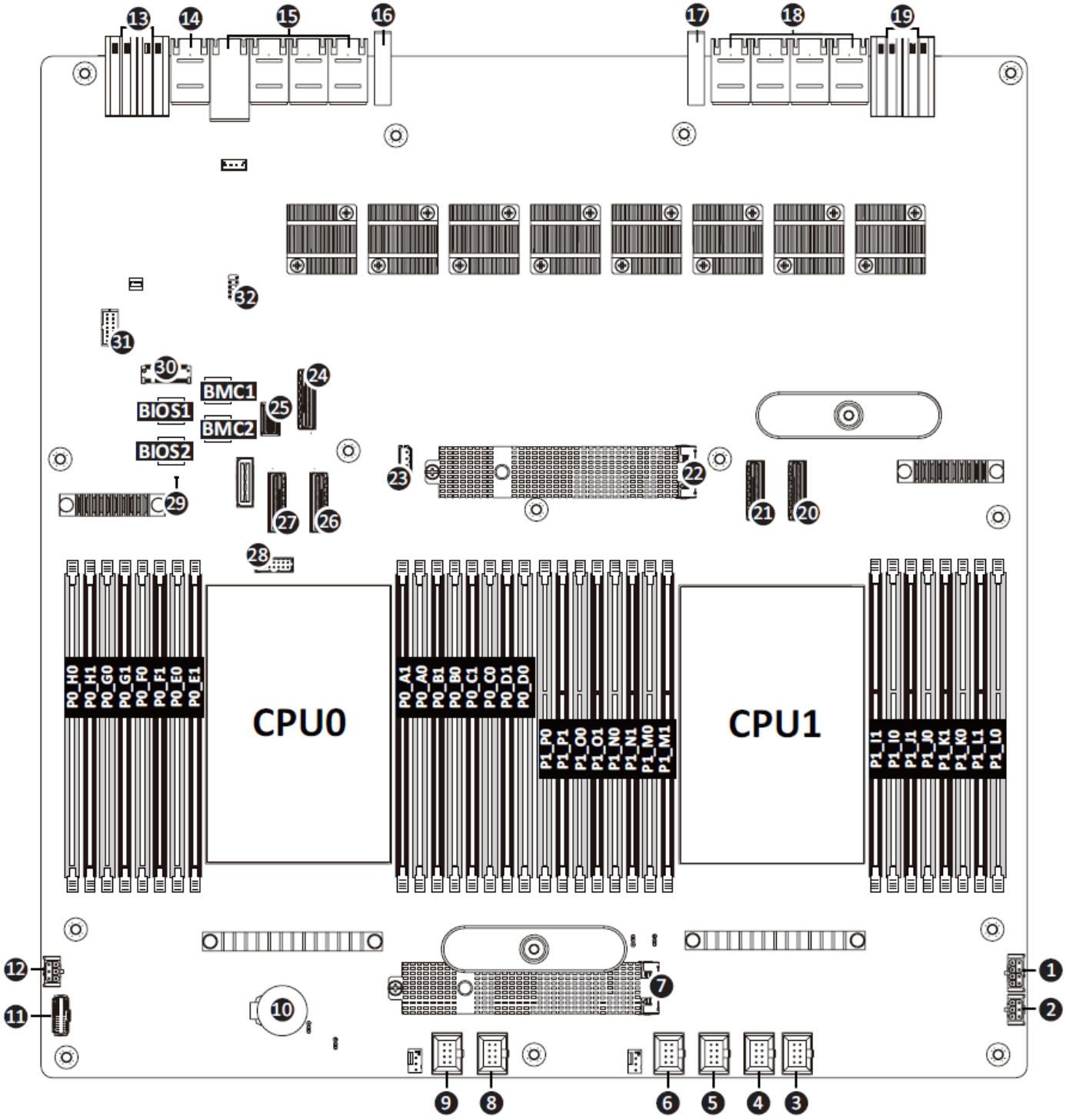
Front System Storage Board



No.	Description
1	MCIO 8i (SFF-TA1016/U2_1)
2	MCIO 8i (SFF-TA1016/U2_0)
3	MCIO 4i (SFF-TA1016/SL_CN1)

5. Server Motherboard

5.1. Layout



No.	Description
1	2 x 4 Pin Front Panel Power Connector (FP_PWR)
2	2 x 3 Backplane Power Connector (BPB_PWR2)
3	FAN_3/FAN_4 Connector
4	FAN_1/FAN_2 Connector
5	FAN_7/FAN_8 Connector
6	FAN_5/FAN_6 Connector
7	M.2 Slot (PCIe Gen5 x2, Support NGFF-22110)
8	FAN_11/FAN_12 Connector
9	FAN_9/FAN_10 Connector
10	Battery Socket
11	HDD Backplane Board Connector
12	2 x 3 Backplane Power Connector (BPB_PWR1)
13	Motherboard Power Connector (MB_PWR1/MB_PWR2)
14	Power Distribution Board Connector (PDB_IO)
15	PCIe Signal Connector (EX_SXMJ3-6)
16	Guide Pin Connector (GP1)
17	Guide Pin Connector (GP2)
18	PCIe Signal Connector (EX_SXMJ7-10)
19	Motherboard Power Connector (MB_PWR3/MB_PWR4)
20	MCIO Connector (U2_P1_PE3A/PCIe Gen5)
21	MCIO Connector (U2_P1_PE3B/PCIe Gen5)
22	M.2 Slot (PCIe Gen5 x4, Support NGFF-22110)
23	IPMB Connector
24	MCIO Connector (for System I/O/FP_IO)
25	SlimLine Connector (for MLAN/FP_LAN)
26	MCIO Connector (U2_P0_PE3B/PCIe Gen5)
27	MCIO Connector (U2_P0_PE3A/PCIe Gen5)
28	TPM Module Connector
29	BMC Firmware Readiness LED
30	PRoT Module Connector (M.2 M-Key/Optional SKU)
31	VGA Connector
32	Serial Port Header

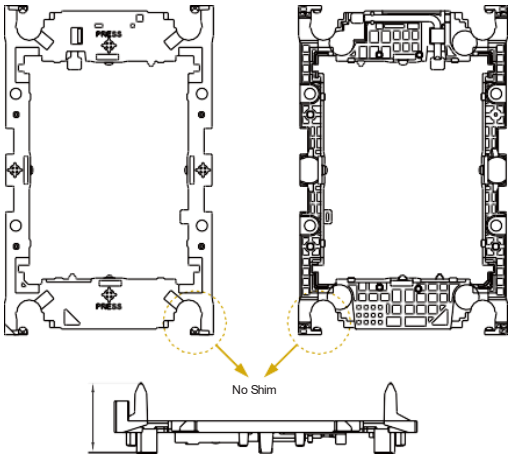
5.2. Installing CPUs and Heatsinks

CAUTION

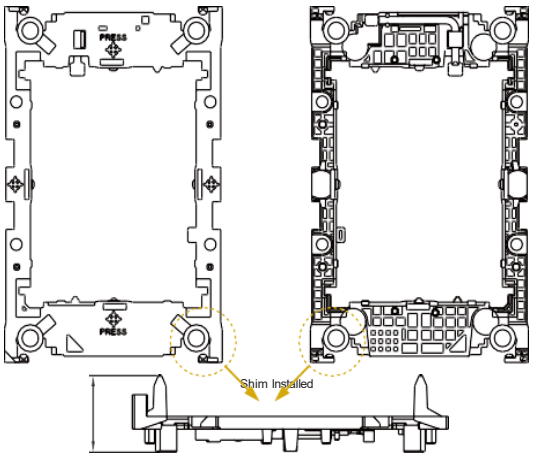
- **Unplug all power cables before installing the CPU.**
- **Illustration in this documentation are examples only.**

Carrier Type	Xeon SP XCC	Xeon SP HCC/LCC/HDCC
Carrier Code	E2A	E2B
Shim	No	Yes
Carrier Height	16.70mm	17.55mm

XCC Carrier



HCC/LCC/HDCC Carrier



IMPORTANT

For step-by-step instructions on installing or removing a CPU, please contact your technical representative at 2CRSi.

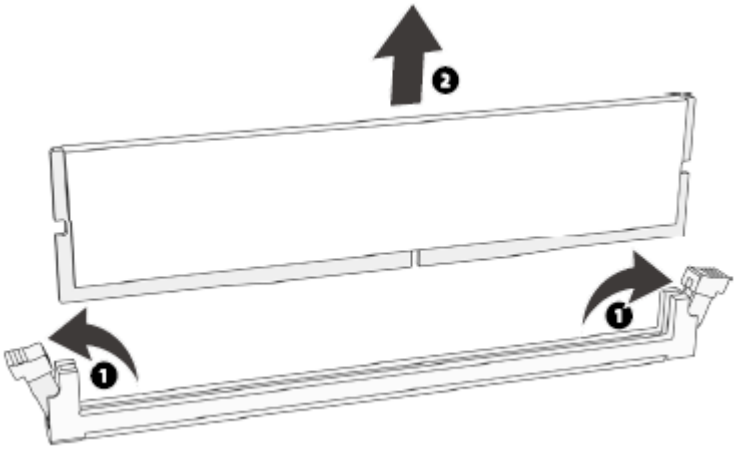
5.3. Installing Memory Modules (DIMM)

CAUTION

- **The DIMM only fits in one correct orientation. It will cause permanent damage to the server motherboard and the DIMM if forcing the DIMM into the slot at incorrect orientation.**

Removing the DIMM:

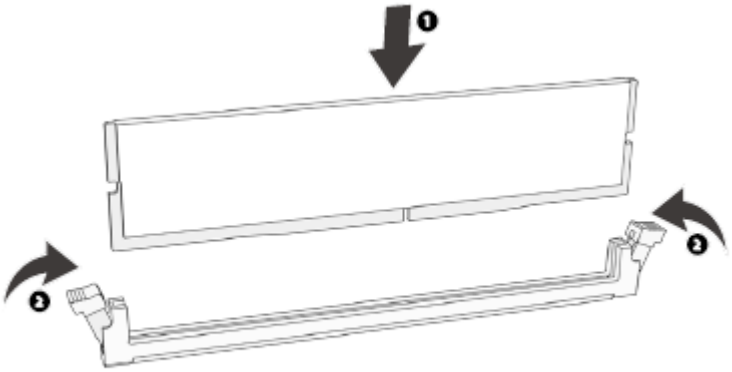
1. Locate the DIMM you want to replace.
2. Remove the DIMM:
    a. Push the release tabs on both ends of the DIMM slot outward to unlock it.



    b. Gently lift and remove the DIMM from the slot

Installing the DIMM:

1. Take the new DIMM out of the memory box.
2. Align the bottom notch with the receptive point on the slot. Use two thumbs together to press both ends of the module straight down into the slot until the module snaps into place.



6. Operating System and Hardware Compatibility

See latest version of document "Godì 1.8E2D-NV8 DLC_Operating System and Hardware Compatibility List".

This document describes the OS and hardware compatibility of the server. For the latest compatibility configuration and the component models not listed in this document, contact your local 2CRSi sales representative.

7. Regulatory Information

7.1. Safety

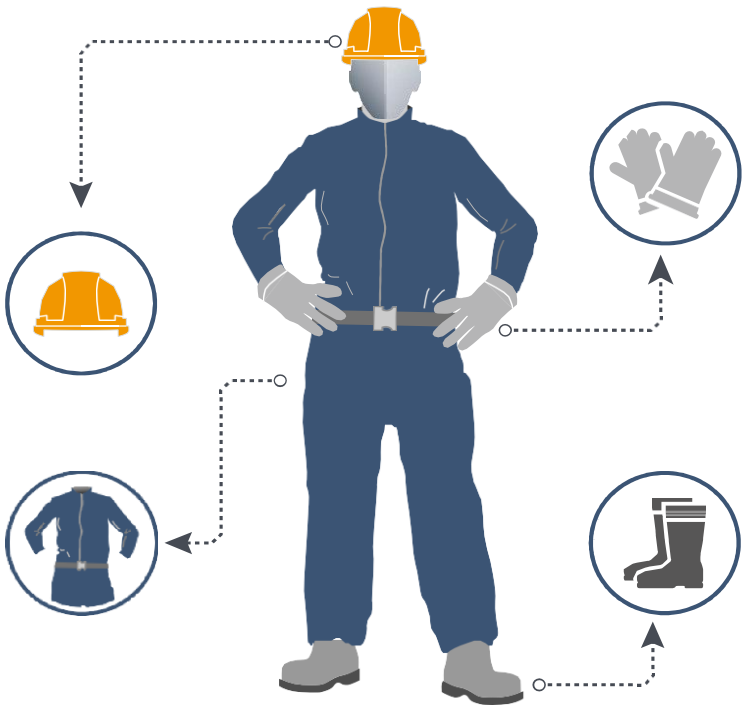
7.1.1 General

- Strictly comply with local laws and regulations while installing the equipment. The safety instructions in this section are only a supplement to local safety regulations.
- To ensure personal safety and to prevent damage to the equipment, all personnel must strictly observe the safety instructions in this section and on the device labels.
- People performing specialized activities, such as electricians and electric forklift operators, must possess qualifications recognized by the local government or authorities.

7.1.2 Personal Safety

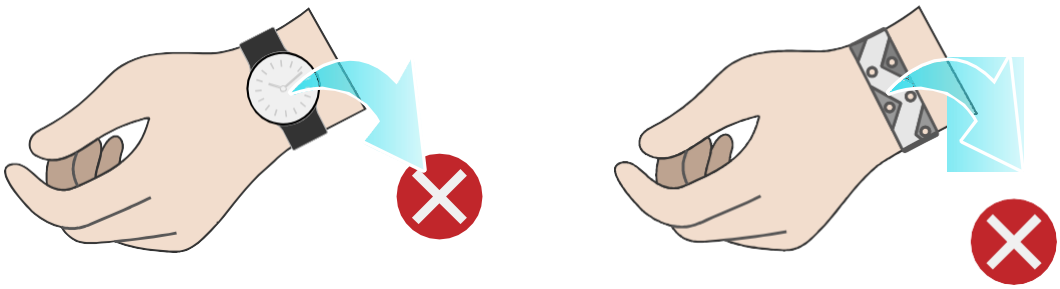
- Only personnel certified or authorized by 2CRSi are allowed to perform the installation procedures.
- Stop any operation that could cause personal injury or equipment damage. Report to the project manager and take effective protective measures.
- Working during thunderstorms, including but not limited to handling equipment, installing cabinets and installing power cords, is forbidden.
- Do not carry the weight over the maximum load per person allowed by local laws or regulations. Arrange appropriate installation personnel and do not overburden them.
- Installation personnel must wear clean work clothes, work gloves, safety helmets and safety shoes.

Protective Clothing



- Before touching the equipment, put on ESD clothes and ESD gloves or an ESD wrist strap, and remove any conductive objects such as wrist watches or metal jewelry, in order to avoid electric shock or burns.

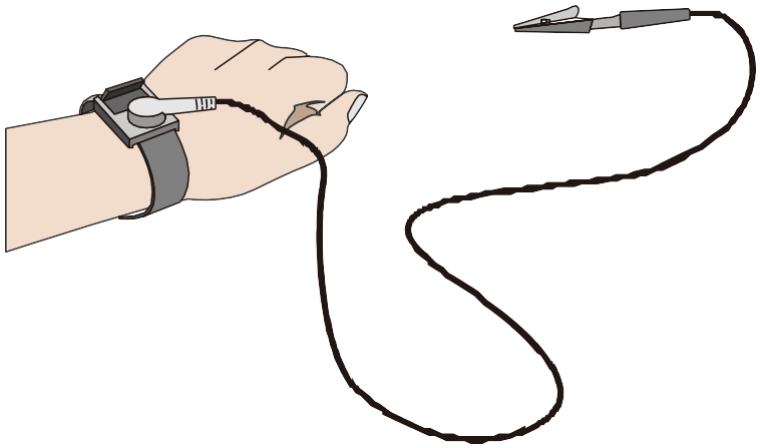
REMOVING CONDUCTIVE OBJECTS



How to put on an ESD strap.

a. Put your hand through an ESD wrist strap.
b. Tighten the strap buckle to ensure a snug fit.
c. Plug the alligator clip of the ESD wrist strap into the corresponding jack on the grounded cabinet or grounded chassis.

WEARING AN ESD WRIST STRAP



- Use tools correctly to avoid personal injury.
- When moving or lifting equipment above shoulder height, use lifting devices and other tools as necessary to avoid personal injury or equipment damage due to equipment slippage.
- The power sources of the server carry a high voltage. Direct contact or indirect contact through damp objects with the high-voltage power source is fatal.
- To ensure personal safety, ground the server before connecting power.
- When using ladders, always have someone hold and guard the bottom of the ladders. In order to prevent injury, never use a ladder alone.
- When connecting, testing or replacing optical fiber cable, avoid looking into the optical port without eye protection to prevent eye damage from laser light.

7.1.3 Equipment Safety

- To ensure personal safety and prevent equipment damage, use only the power cords and cables that come with the server. Do not use them with any other equipment.
- Before touching the equipment, put on ESD clothing and ESD gloves to prevent static electricity from damaging the equipment.
- When moving the server, hold the bottom of the server. Do not hold the handles of any module installed in the server, such as PSUs, fan modules, drive modules, or motherboard. Handle the equipment with care at all times.
- Use tools correctly to avoid damage to the equipment.
- Connect the power cords of active and standby PSUs to different PDUs to ensure high system reliability.
- To ensure equipment safety, always ground the equipment before powering it on.

7.1.4 Transportation Precautions

Contact the manufacturer for precautions before transportation as improper transportation may damage the equipment. The precautions include but are not limited to:

- Hire a trusted logistics company to move all equipment. The transportation process must comply with international transportation standards for electronic equipment. Always keep the equipment being transported upright. Avoid collision, moisture, corrosion, packaging damage or contamination.
- Transport the equipment in its original packaging.
- If the original packaging is unavailable, separately package heavy and bulky components, and fragile components (such as optical modules and PCIe cards).
- Power off all equipment before shipping.

7.1.5 Manual Handling Weight Limits

CAUTION

Observe local laws or regulations regarding the manual handling weight limits per person. The limits shown on the equipment and in the document are recommendations only.

The following table lists the manual handling weight limits per person specified by some organizations.

Manual Handling Weight Limit per Person:

Organization	Weight Limit (kg/lbs.)
European Committee for Standardization (CEN)	25/55.13
International Organization for Standardization (ISO)	25/55.13
National Institute for Occupational Safety and Health (NIOSH)	23/50.72
Health and Safety Executive (HSE)	25/55.13
General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ)	Male: 15/33.08 Female: 10/22.05

8. Appendix

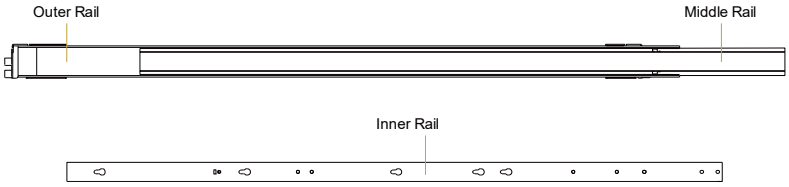
8.1. Installing rail assembly

The section describes how to rackmount the server with slide rail assembly.

NOTE

5. The rails installation instructions in this manual are example only; the actual rail assembly procedure may differ slightly.

The rail assembly consists of outer, middle and inner rail.

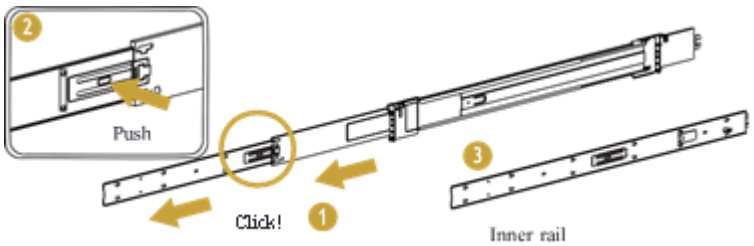


NOTE

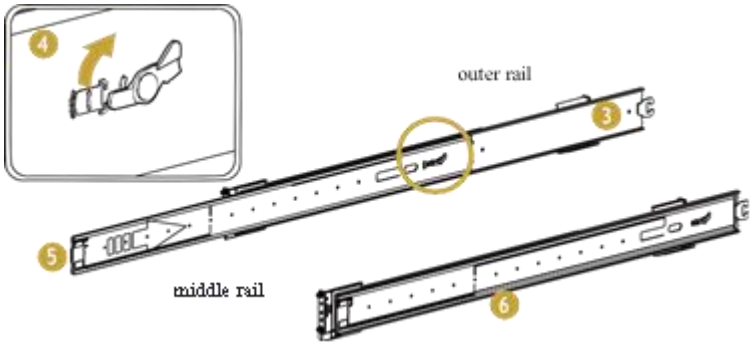
6. Some slide rails are labeled with either L or R, please identify prior to rail installation. Install the rail labeled with L on the left side of rack, and the rail labeled with R on the right side

Remove the inner rail

1. Pull the inner rail out.
2. Push locking plate to remove the inner rail from the rail assembly.

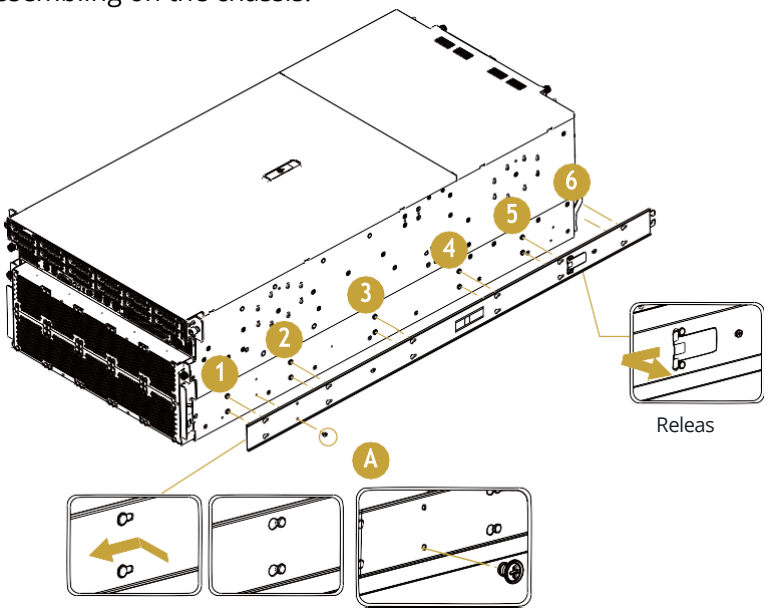


3. Push tab to slide the middle rail.



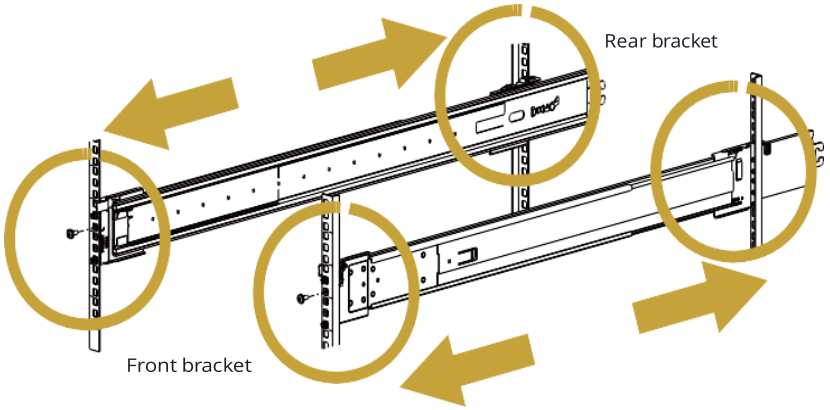
Install inner rail onto the chassis

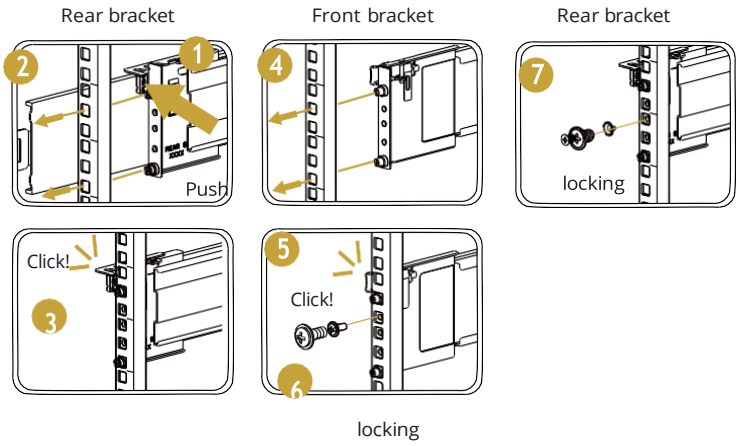
For safety concern, user can fasten the screw (screw hole A as below picture) on the end of inner member while assembling on the chassis.



Install the inner member onto the chassis in this direction.

Install outer rail onto the rack post





8.2. Installing the System into the Cabinet

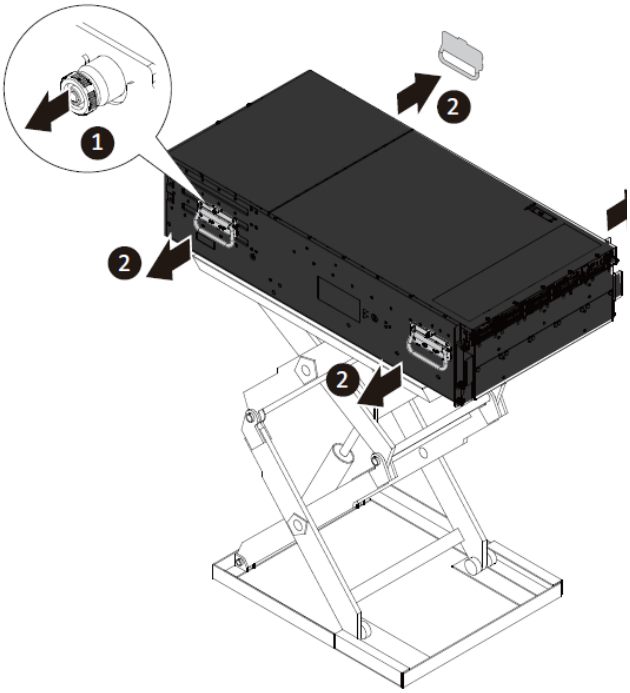
CAUTION

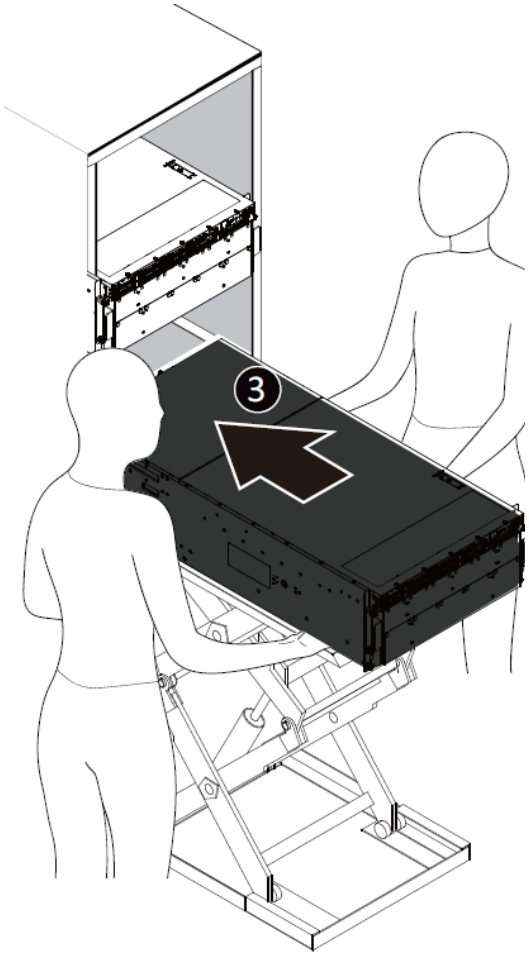
Read the following guidelines before you begin to install the system into the cabinet:

- **Make sure the system is not turned on or connected to AC power.**
- **A Lift Table is required. Place the system unit on Lift Table.**
- **Four Person lift required. Firmly hold the bottom of the system when required to lift and carry the system.**
- **Failure to observe these warnings could result in personal injury or damage to the equipment.**

Follow these instructions to install the system into the cabinet:

1. Pull out and release the thumbnail screw securing the chassis handle in place.
2. Remove the four handles on each side of the system.
3. Carefully slide the system into the cabinet


1
2
2
2


3