NML72-GB300 User Manual

Revision History

Refer to the table below for changes made on this version of the NML72-GB300 User Manual.

Date	Version	Updates
10/09/2025	FIRST DRAFT	
10/22/2025	V1.00	
12/19/2025	V1.01	Add stabilizer SOP section
12/29/2025	V1.02	Add input power requirement and operation temperature.

About this Document

This document provides a comprehensive technical overview of the system, including detailed installation and component replacement instructions. It provides specific technical specifications and offers best practices for component installation.

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Hardware Overview

The NML72-GB300 is a rack scale solution for graphics processing units (GPUs) connected by an NVLink through the NVLink passive copper cable cartridge backplane. The complete NML72-GB300 rack scale solution comprises compute trays with two compute boards, NVLink switch trays, an NVLink passive copper cable backplane, power shelves, a bus bar, and liquid cooling manifolds.

Rack Configuration

The NML72-GB300 rack scale architecture is an NVIDIA rack with 72-GPU NVL domains. Each 72-GPU rack contains:

- 2x 1RU Management Switch, SN2201
- 8x 1RU 33KW Power Shelves
- 18x 1RU GB300 compute trays, each with 2 Grace CPUs and 4 Blackwell GPUs
- 9x NVLink NSO Switch Trays

The rear side of the system provides access to the cable management system, the inlets and outlets to the liquid cooling manifolds and the manifolds themselves, the cable cartridges, and the power bus bar.

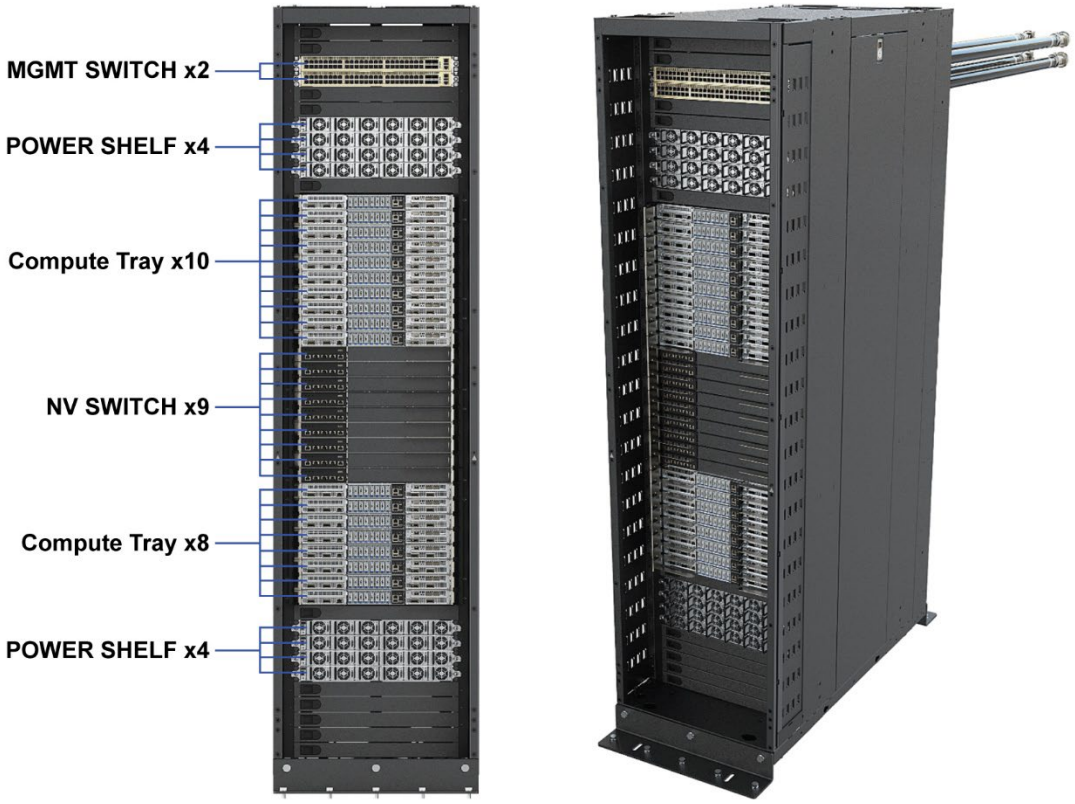
Input power requirements

3Ø, 200-277/346-480Vac (3W+N+PE), 50/60Hz, 60A max. (For each power supply cord)

3Ø, 200-240/346-415Vac (3W+N+PE), 50/60Hz, 60A max. (For each power supply cord)

Operation temperature

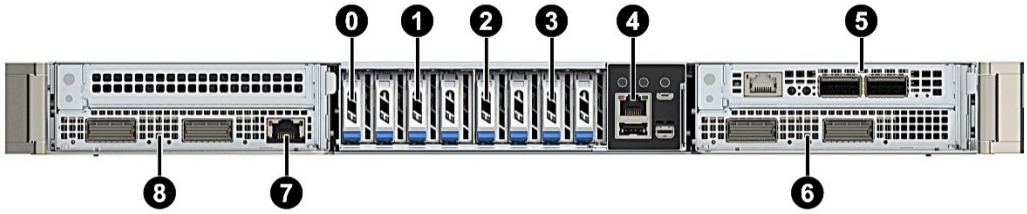
40°C


MGMT SWITCH x2
POWER SHELF x4
Compute Tray x10
NV SWITCH x9
Compute Tray x8
POWER SHELF x4

Compute Trays

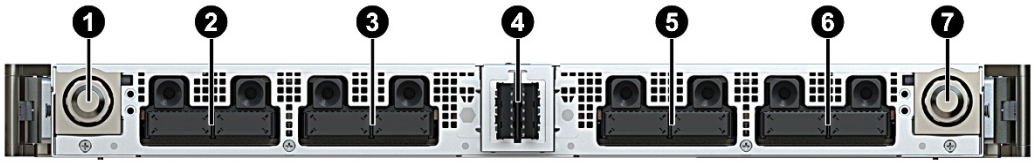
The NML72-GB300 compute tray is an enclosure that holds the compute boards and peripheral accessory boards and runs an OS image. The compute trays are cooled by liquid that runs up and down the rack through manifolds, then through the cold plates that are attached to the CPUs and the GPUs in the tray. The rest of the components like networking and storage devices are air cooled, which is pushed through the system by the fans. The compute trays in a rack are interconnected via NVLink through the connectors at the back of the tray, which enables communication with the other compute trays via the NVSwitch trays.

Front View



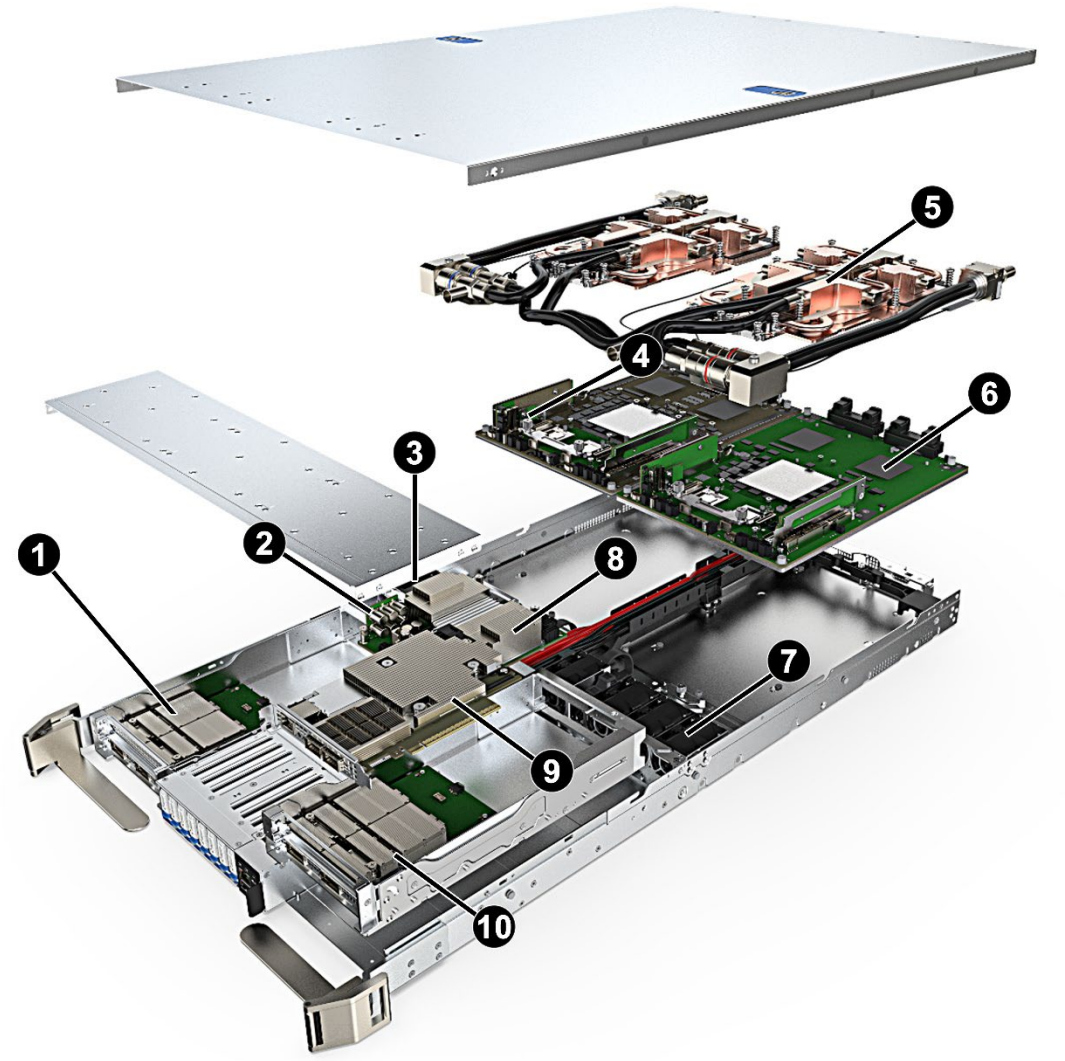
Item	Description	Root port
0-1	PCIe5 x2 E1.S NVMe	ConnectX-8 Mezzanine Network Board 0
2-3	PCIe5 x2 E1.S NVMe	ConnectX-8 Mezzanine Network Board 1
4	Front IO panel	
5	BlueField-3/1 FHHL AIC	CPU1 UPHY3
6	OSFP Board 1	ConnectX-8 Mezzanine Network Board 1
7	1G NIC Board	CPU0 UPHY2 via PCIeSwitch
8	OSFP Board 0	ConnectX-8 Mezzanine Network Board 0

Rear View



Item	Description
1	Manifold – Liquid outlet
2	GPU2 NVLink 4x19 connector
3	GPU3 NVLink 4x19 connector
4	ORv3 Busbar Clip – Compute tray power input
5	GPU0 NVLink 4x19 connector
6	GPU1 NVLink 4x19 connector
7	Manifold – Liquid inlet

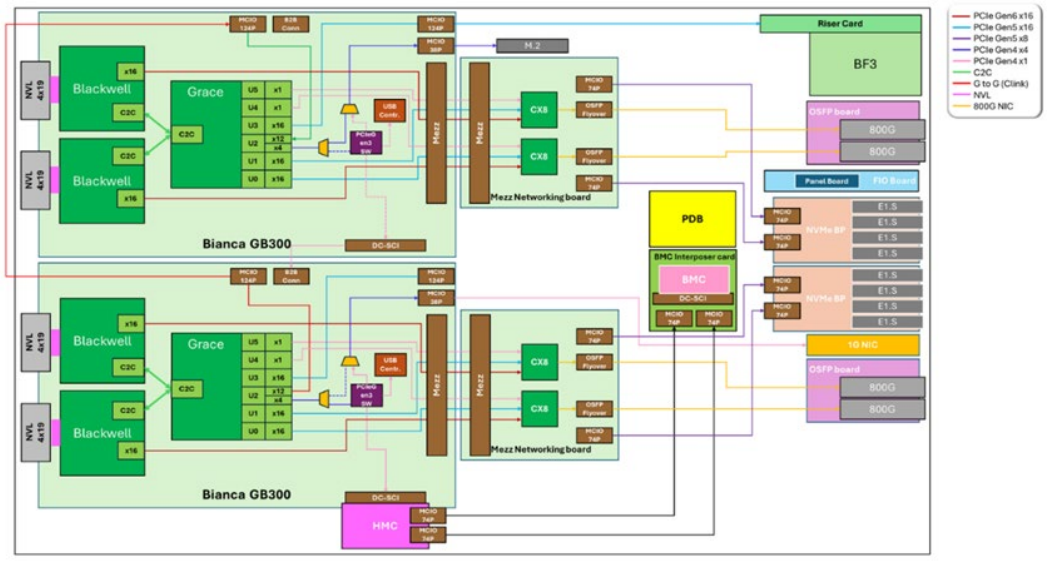
Compute Tray Components



Item	Description
0	OSFP Board 0
1	Interposer Card
2	BMC
3	TPM

4	Cold Plate
5	HMC
6	Fan Module
7	Power Distribution Board
8	BlueField-3/1 FHHL AIC
9	OSFP Board 1
10	OSFP Board 0

Compute Tray System Block Diagram



NVLink Switch Trays

The NVLink switch system delivers an unprecedented 57.6 terabits per second (Tbps) of full duplex bandwidth for the fifth-generation NVLink in a 1U standard tray design. Each switch tray has 2x NVLink switches, and each switch tray has the following components:

- 2x NVLink NVSwitches, each of which has 72 NVLink ports
- NVOS 2.0 or later for NVLink switch life cycle provisioning and telemetry
- BMC for attestation and recovery
- FM and SM as the NVLink control planes that run on the switch tray
- CPU ERoT for security
- With 144 NVLink ports equipped with engines for NVIDIA Scalable Hierarchical Aggregation Reduction Protocol (SHARP)™ for in-network reductions and multicast acceleration



Item	Port	Description
0	RJ45	Leakage connector
1	RJ45	1GbE ETH0 for management connecting to CPU card
2	RJ45	1GbE ETH1 for management connecting to CPU card
3	RJ45	1GbE BMC
4	RJ45	RS232 to CPU UART or for BMC
5	USB	Front (USB 2.0 type A) connecting to the CPU card
6	RJ45	Leakage connector

Power Shelves

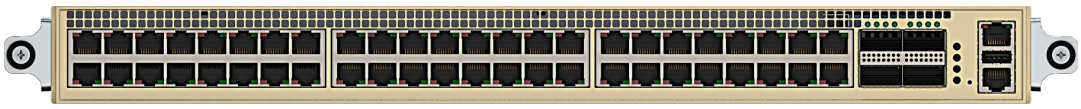
The NML72-GB300 rack uses a bus bar structure to distribute power in the rack. Power whips energize power shelves from a remote power panel. The power shelves convert AC power into nominal 50V-51V DC output and distribute it through the bus bar to the rack components. Eight power shelves are used in the rack to supply redundant power. The rack power consumption is approximately 136kW. The power shelf uses six air-cooled 5.5kW PSUs in eight power shelves that provide N+N redundancy and the required input power of 33kW per power shelf.



MGMT SW SN2201 Switches

MGMT SW SN2201 switches are used to connect all BMCs in the compute trays (including BlueField-3 BMCs) and the switch trays to the management network. The following system and switch ports are connected to this switch:

- Out-of-band management BMC from the compute trays
- BlueField-3 BMCs from the compute trays



Console Access

Each NVLink switch provides an RJ45 interface for RS232 serial access. The default serial baud rate is 115200 baud.

Leak Detection

Leak detection in the NML72-GB300 rack's liquid cooling system prevents damage to equipment, ensures system reliability and uptime, protects data integrity, and maintains safety. Early detection helps avoid costly repairs, downtime, and regulatory compliance issues, optimizes the cooling efficiency, and prevents secondary damage to infrastructure.

Leak Pan

The leak pan is above the bottom power shelf and funnels liquid down the drain hose, preventing liquid from entering the high-voltage section of the rack. Liquid in contact with the power shelf or AC power infrastructure can present personnel hazard. The leak bucket under the rack collects liquid from the drain tube and vertical manifolds. The bucket could have a spot leak sensor inside, that is connected to the rack infrastructure manager (RIM) or BMS.

Network Overview

The NML72-GB300 rack installation uses several discrete networks.

Compute Tray



Item	Port	Description	Network
1	CX-8	NDR800, OSFP	This network is used for node communication across racks (east/west traffic).
2	BF3 2	200G Ethernet, QSFP	This network is used to provision and manage the compute trays.
3	BF3 2	NDR400, QSFP	This network provides each node access to storage.
4	RJ45	1G BF3 BMC NIC	This network provides Base Command Manager and the headnode access to the outof-band interfaces of all the components in the rack, including the compute trays, NVLink switch trays, the power shelves, the top-of-rack switches, and the control plane nodes.

5	RJ45	1G BMC NIC	This network provides Base Command Manager and the headnode access to the outof-band interfaces of all the components in the rack, including the compute trays, NVLink switch trays, the power shelves, the top-of-rack switches, and the control plane nodes.
6	RJ45	1G RJ45 OS Eth NIC	OS NIC

Switch Tray



Item	Port	Description	Network
1	RJ45	1G Eth0 Management	This network provides Base Command Manager and the headnode access to the outof-band interfaces of all the components in the rack, including the compute trays, NVLink switch trays, the power shelves, the top-of-rack switches, and the control plane nodes.
2	RJ45	1G Eth1 Management	
3	RJ45	1G BMC Management	

Storage

NML72-GB300 systems are part of SuperPODs designed for massive-scale AI and HPCworkloads. Their storage architecture is a critical component for feeding data to the GPUsefficiently. The system uses a multi-tiered storage hierarchy that includes internal storageas well as network-connected storage over a high-speed network.

Internal Storage

Each compute tray is equipped with local NVMe storage for caching, and a single M.2NVMe drive is used for booting the operating system.

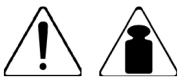
For local caching, the E1.s NVMe drives are configured in RAID 0 as a single volume. During the first read of a dataset from shared storage, the system's software can automatically cache a copy of the data to the local NVMe devices using cachefilesd, if configured. For subsequent reads of the same data, applications can then access it from the local NVMe cache, which provides significantly faster access than retrieving it again across the network. This caching process is transparent to users and applications.

Local storage can also be used for checkpointing acceleration. While primary checkpoints typically go to high-performance storage for reliability, local NVMe can be used for temporary, faster checkpointing before being flushed to shared storage, or for smaller, very frequent checkpoints within an epoch.

External Storage

The NML72-GB300 primary data source is a high-performance, shared parallel file system available from partners as described in the SuperPOD reference architecture. This storage is accessed over converged Ethernet by default, although InfiniBand can also be used. The shared storage holds the massive datasets required for AI training and serves as the original data source.

Rack Assembly Guide



12.92 kg

28.48 lb

This symbol indicates that the component exceeds the recommended weight for one individual to handle safely.

WARNING: To reduce the risk of personal injury or damage to the equipment, observe local occupational health and safety requirements and guidelines for manual material handling.

ACCEPTANCE GUIDANCE:

- **Initial Inspection**

  Tiltwatch and Shockwatch: Upon receiving the shipment, immediately check the tiltwatch and shockwatch indicators on the cartons. If either indicator has activated (turned red), it signifies potential damage during transit. In this case, do not unpack the equipment. Contact the carrier immediately to report the damage and initiate a damage claim process.

  Visual Inspection: Visually inspect the exterior of the cartons for any signs of physical damage, such as tears, punctures, or water damage.

- **Unpack the Shipment**

  Careful Handling: When unpacking the equipment, exercise caution to avoid physical damage.

  Component Verification: Cross-reference the equipment and accessories with the packing list to ensure that all components are present and undamaged.

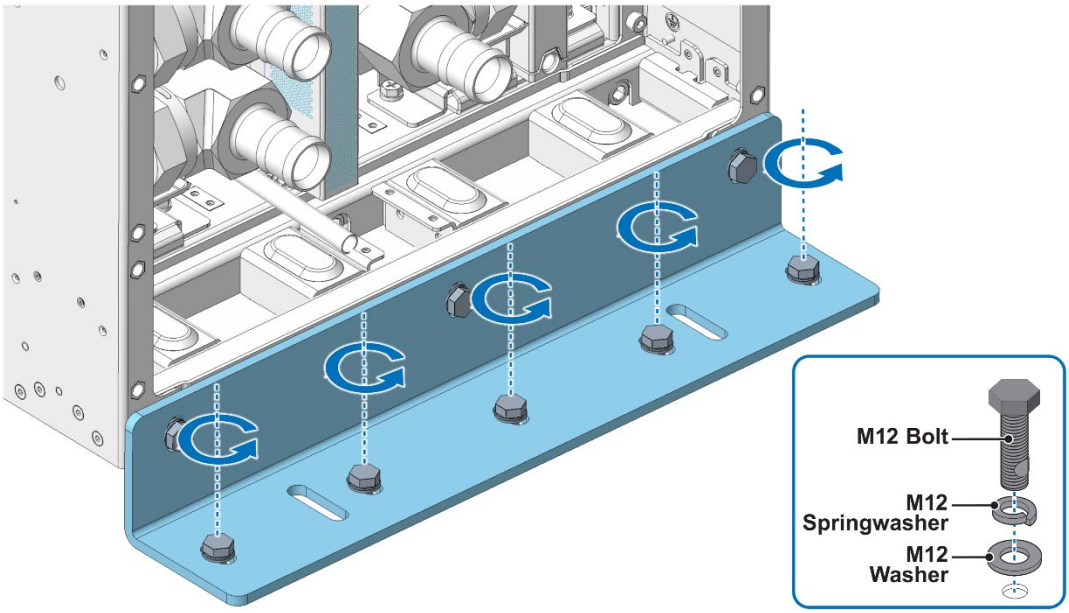
  Damage Reporting: If any damage is found, such as dents, scratches, or missing parts, document the damage with photos and contact the carrier or equipment vendor immediately.

Rack Preparation

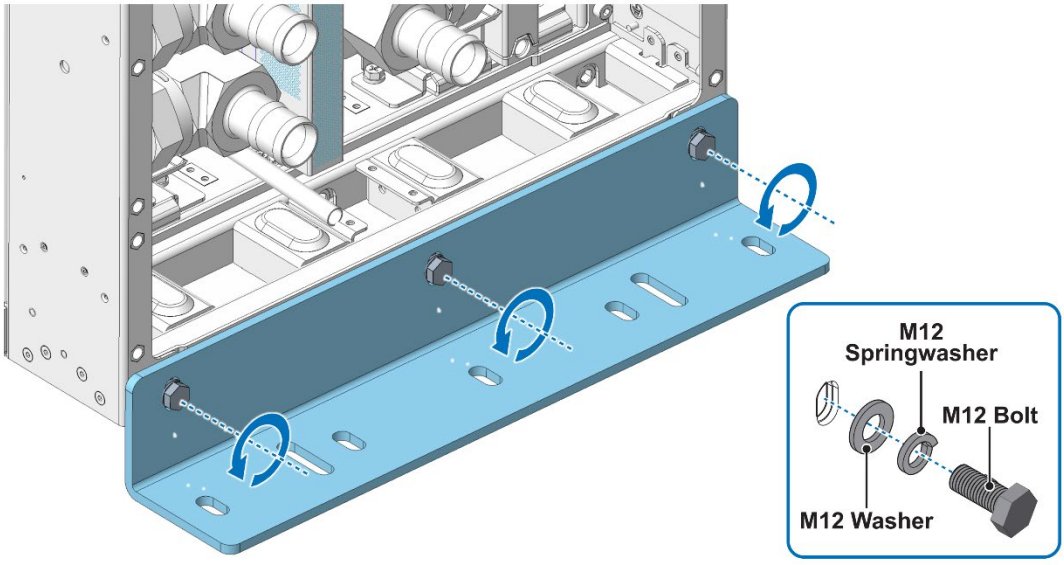
Removing the Seismic Bracket

Before moving the rack system out of its shipping container, it's essential to remove the initial anchor brackets. These brackets secure the rack during transit to prevent damage.

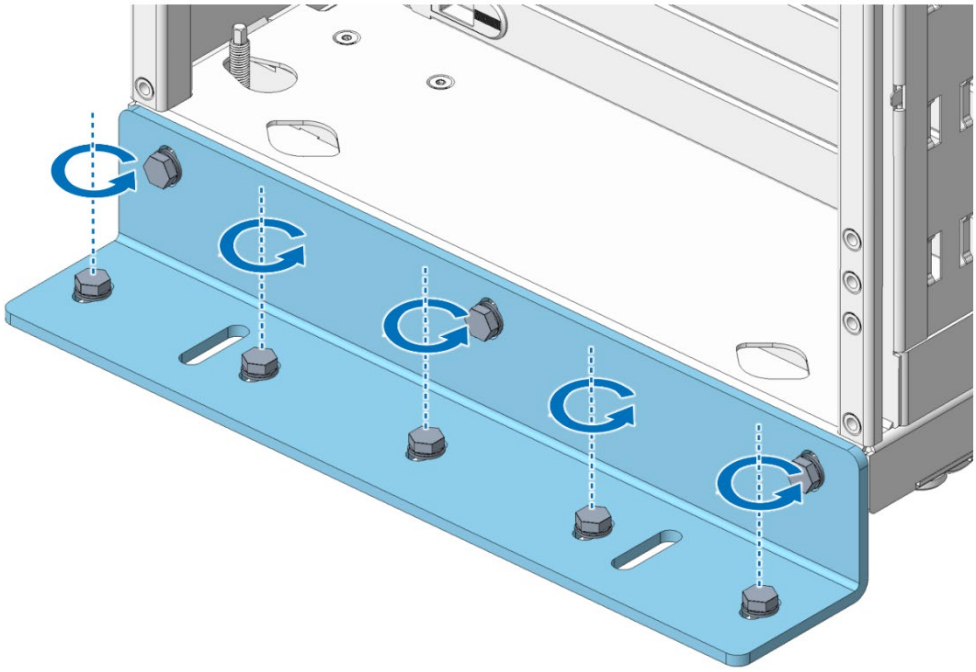
1 Remove the bolts securing the rear bracket to the pallet deck.



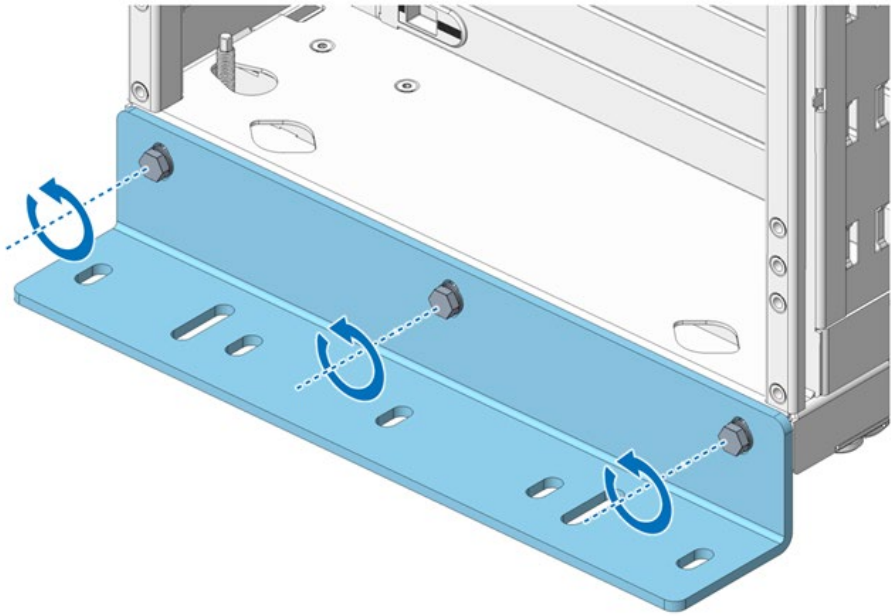
2 Remove the bolts securing the rear L-mounting bracket to the rack.



3 Remove the bolts securing the front bracket to the pallet deck.



4 Remove the bolts securing the front L-mounting bracket to the rack.



5 Place the anchoring brackets on a maintenance cart for use during the rack site installation procedure.

6 Once the brackets are removed, the rack system can be moved to its final installation site.

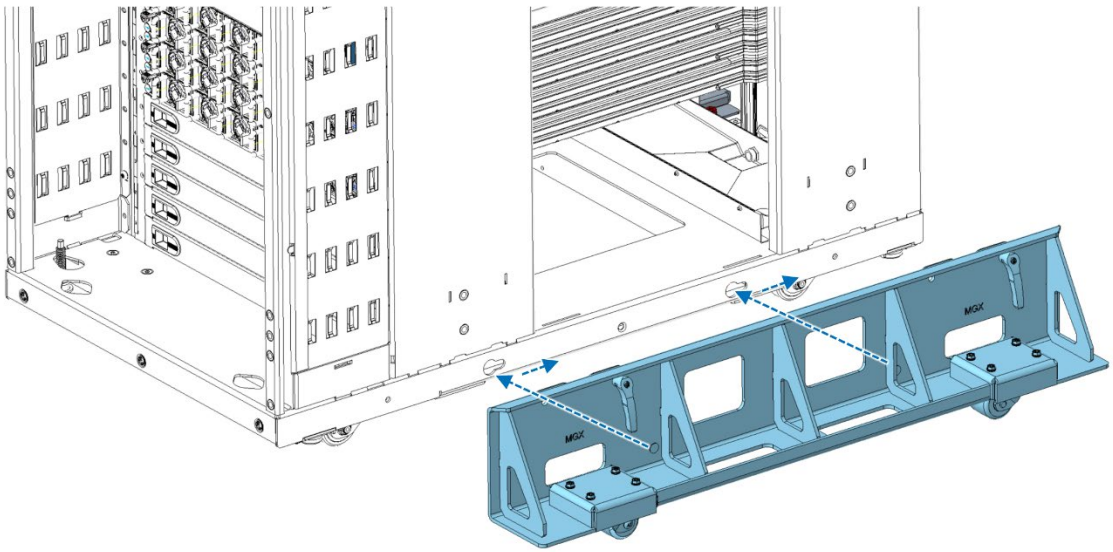
Installation of the Stabilizer Feet

The stabilizer feet are designed to prevent the rack from tipping over. See the documentation provided with the rack cabinet for further information on installing and anchoring the stabilizer feet.

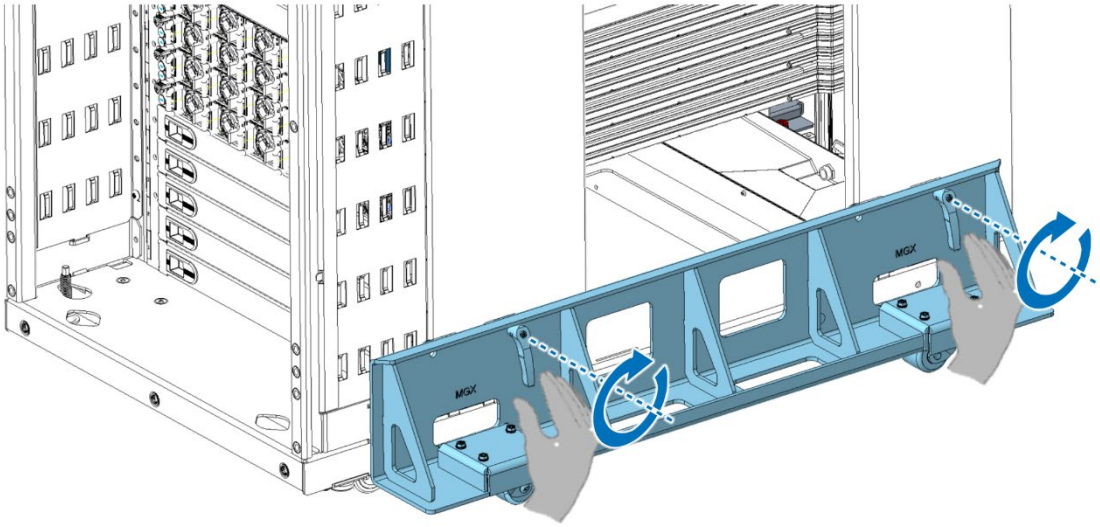
CAUTION:

Carefully unpack and unload the rack system from the shipping package and pallet. Tilting the rack system can fall over the rack system and cause serious injury or death. Always use professional movers when unpacking, unloading and installing this rack system.

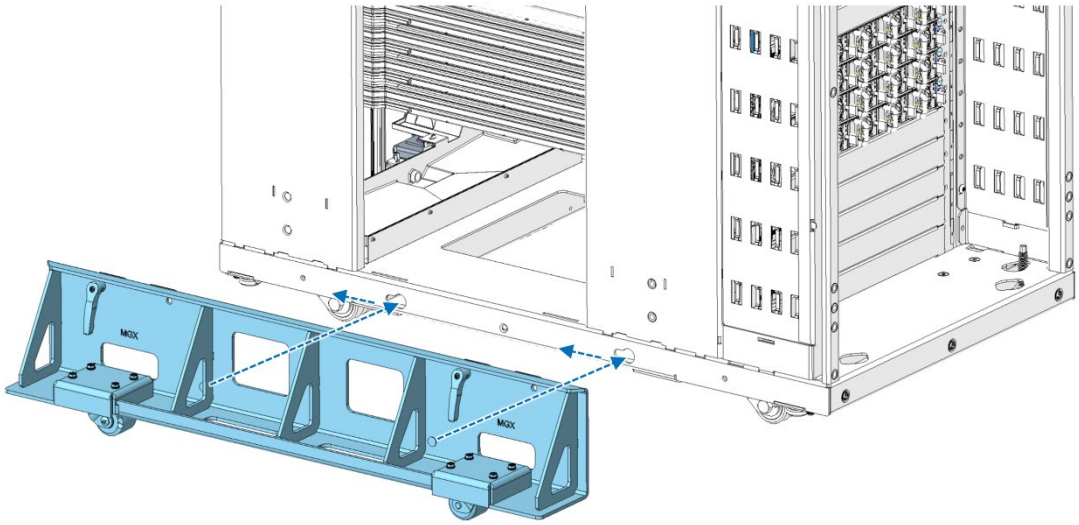
1 Align two T-Pins and side the right side stabilizer feet into the rack.



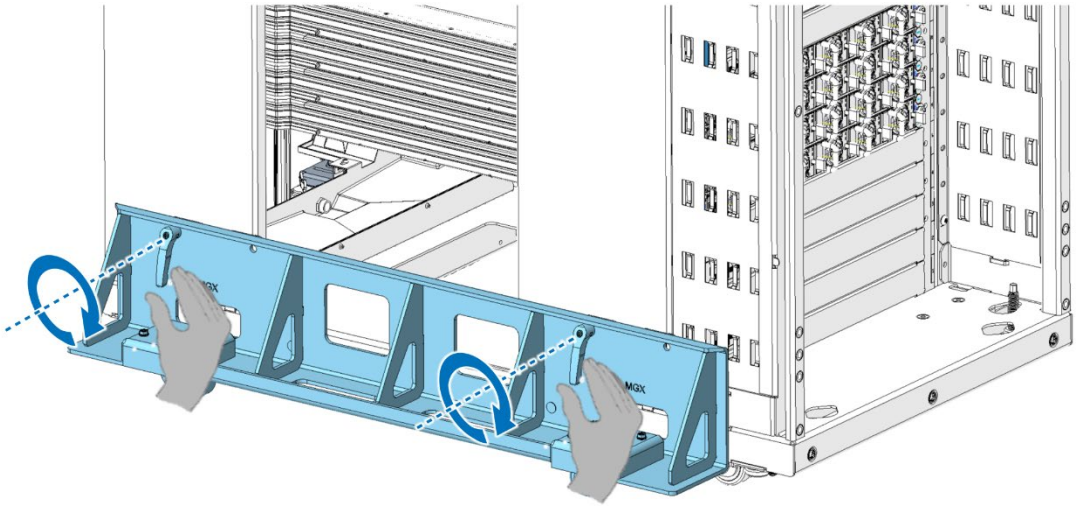
2 Lock two handle screws by hand.



3 Align two T-Pins and side the left side stabilizer feet into the rack.



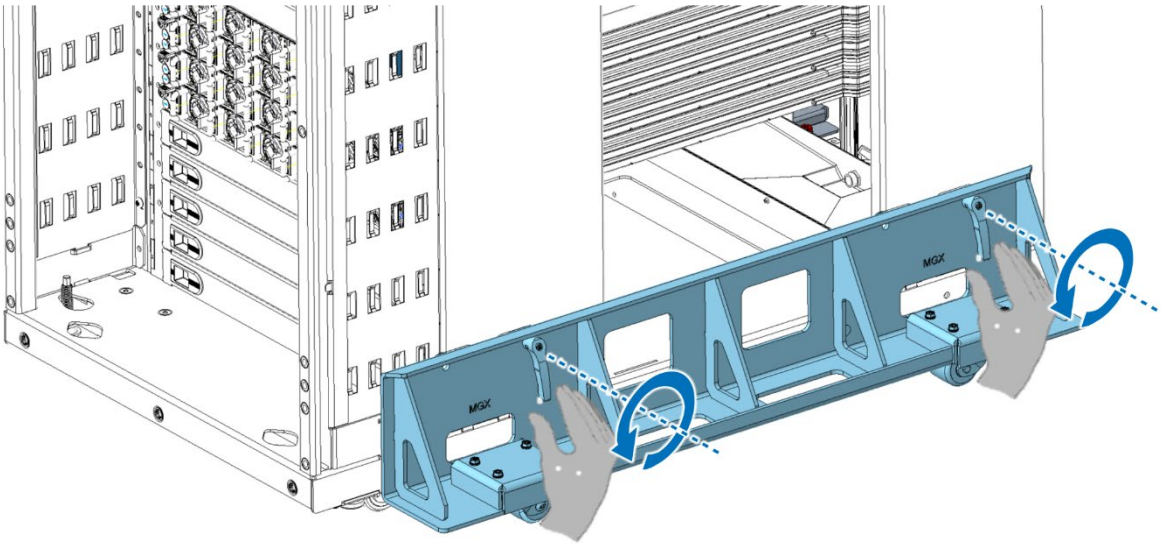
4 Lock two handle screws by hand.



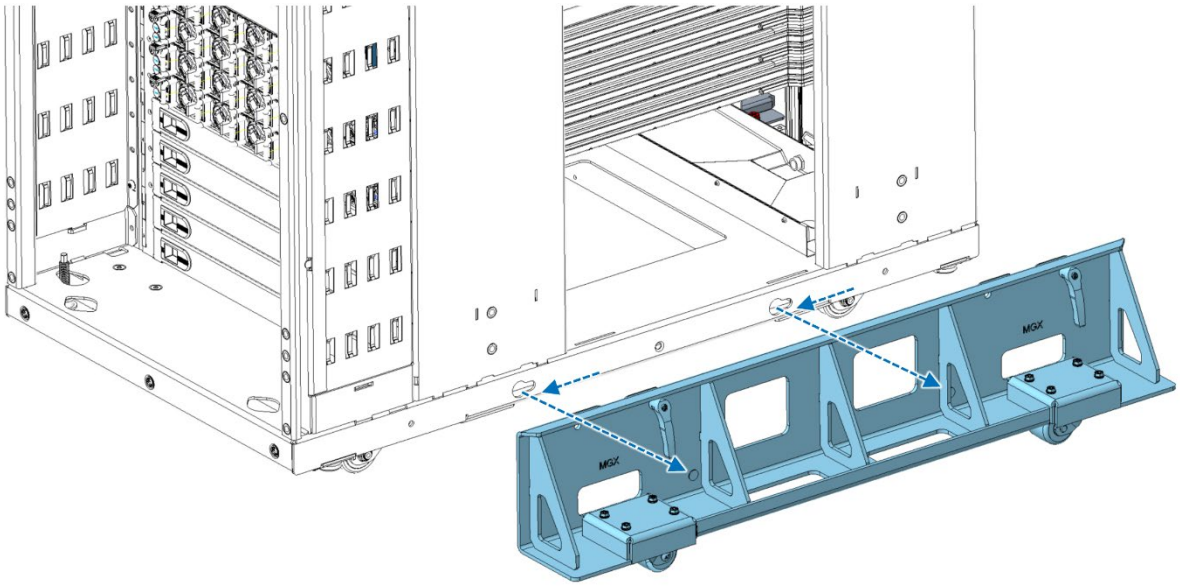
Removing of the Stabilizer Feet

After placing the rack in its desired location, remove the stabilizer feet.

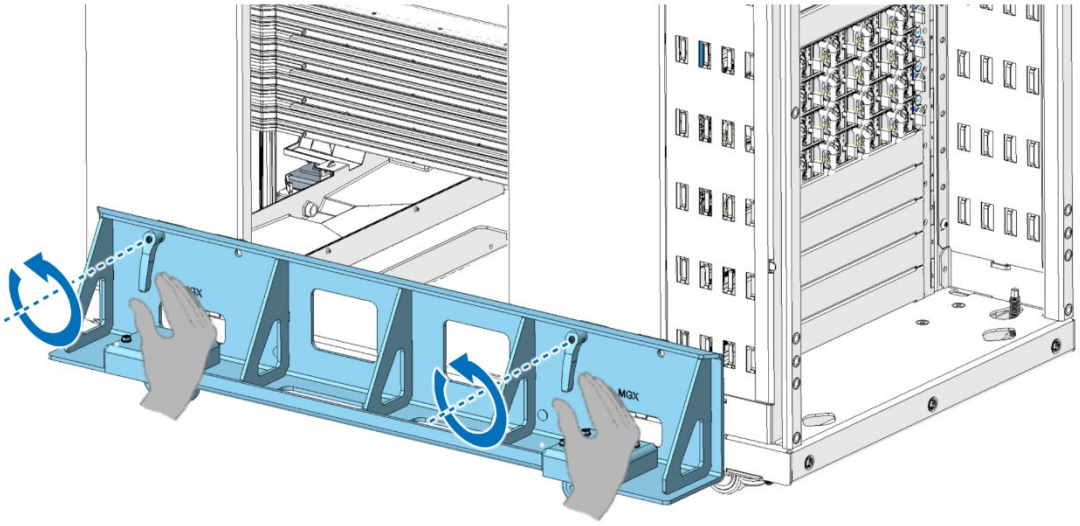
1 Unlock two handle screws by hand.



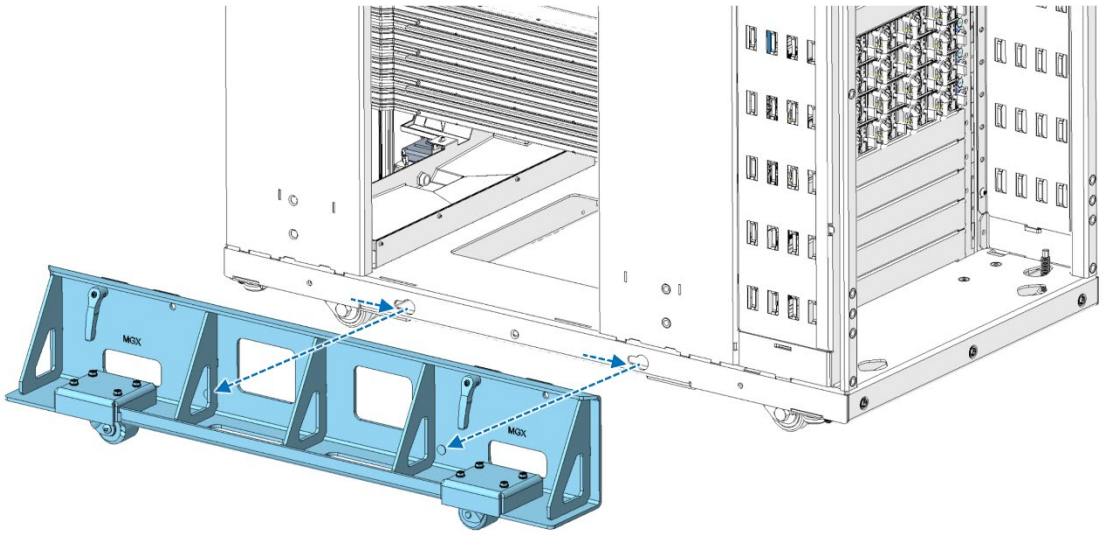
2 Side out the right side stabilizer feet from the rack.



3 Unlock two handle screws by hand.



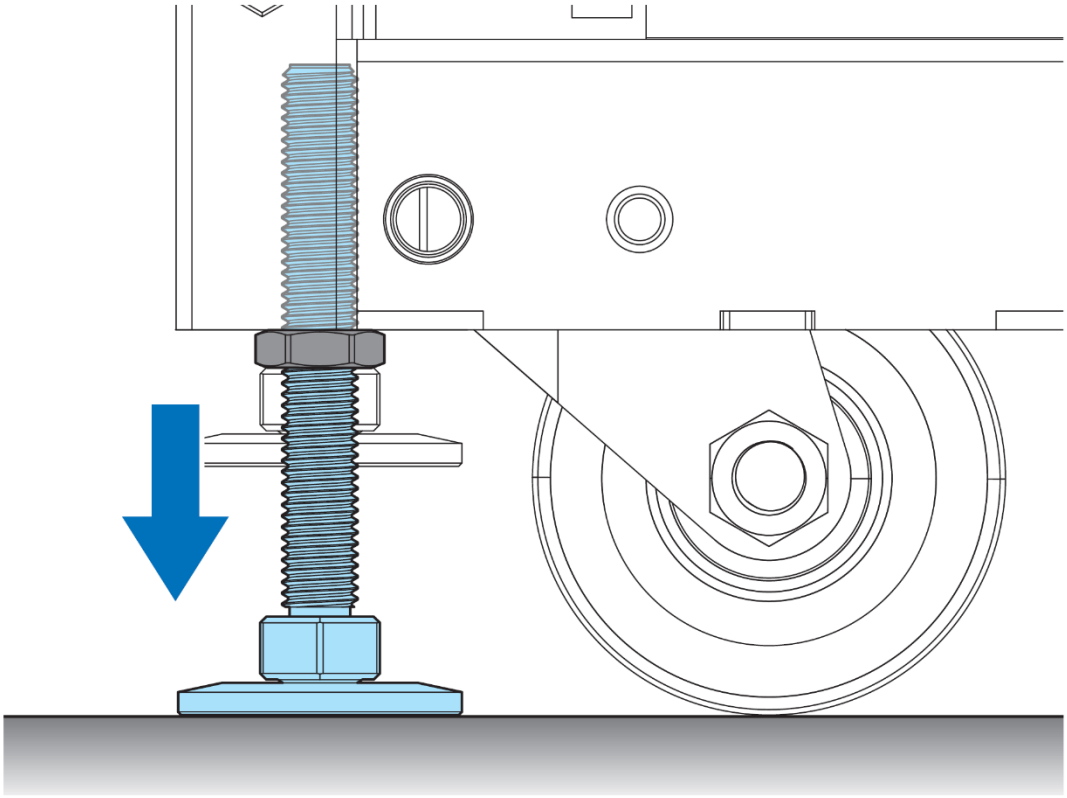
4 Side out the left side stabilizer feet from the rack.



Unloading the Rack System

1 Place the rack in its desired location, ensuring it is on a flat, level surface.

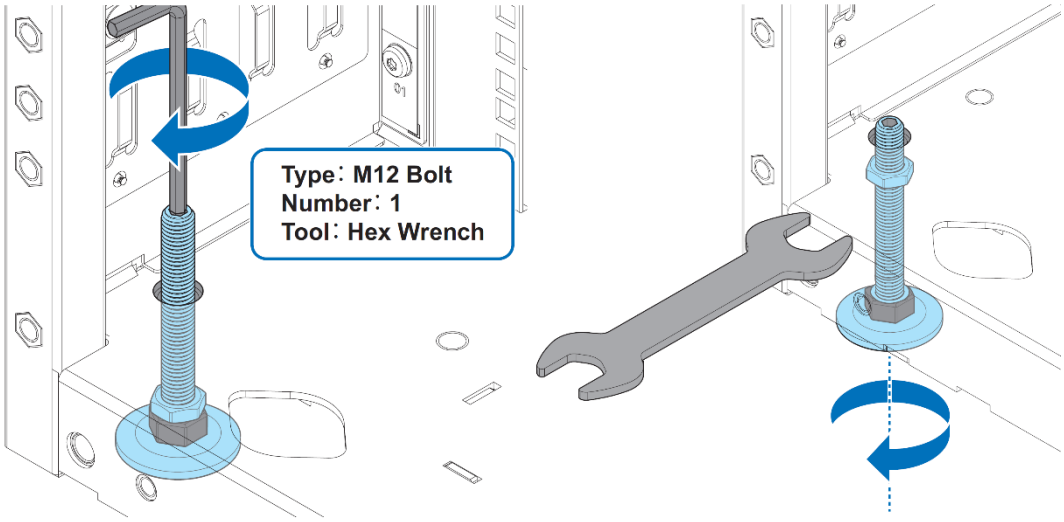
2 Lower the four leveling jacks until fully in contact with the floor.



3 Place a level on top of the rack to check its horizontal alignment.

4 Adjust the levelers at the base of the rack as needed to achieve a level position.

5 Use a hex wrench or wrench to adjust the levelers:



Installing the Seismic Brackets

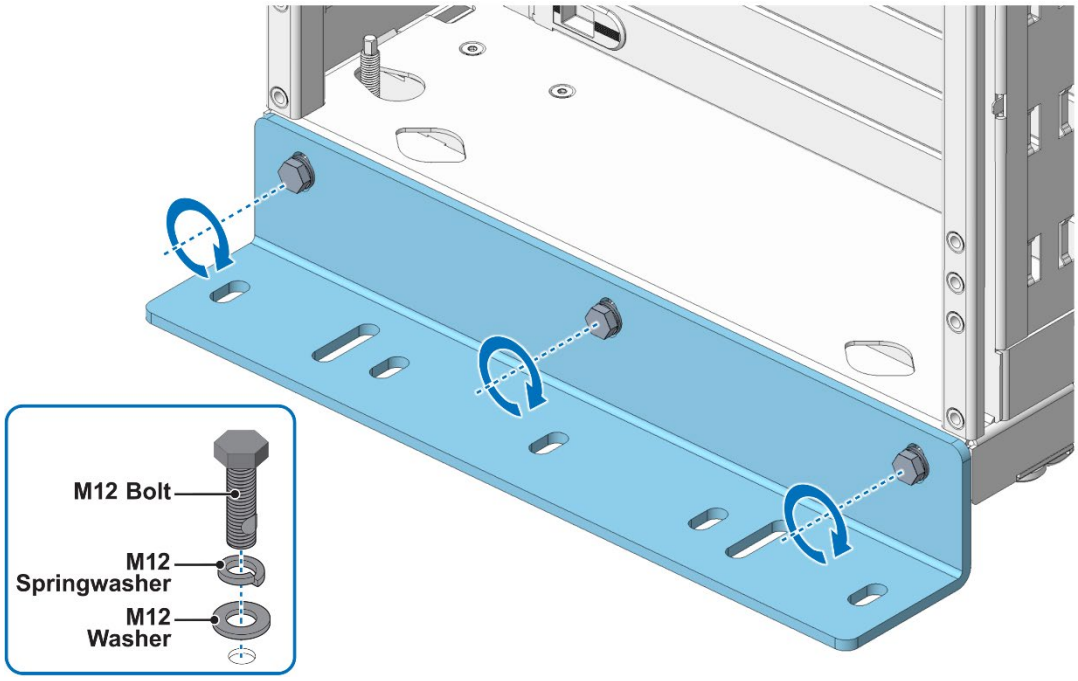
To ensure the stability and safety of your rack system, it's essential to securely anchor it to the floor. This section provides detailed instructions on how to attach the anchor mounting brackets to both the rack and the floor.

1 Install the brackets by positioning the anchor brackets to the front and rear of the rack system, aligning them with the pre-drilled holes.

2 Secure the front bracket by fastening the bracket to the rack with the provided bolts.

3 Tighten the bolts to the specified torque:

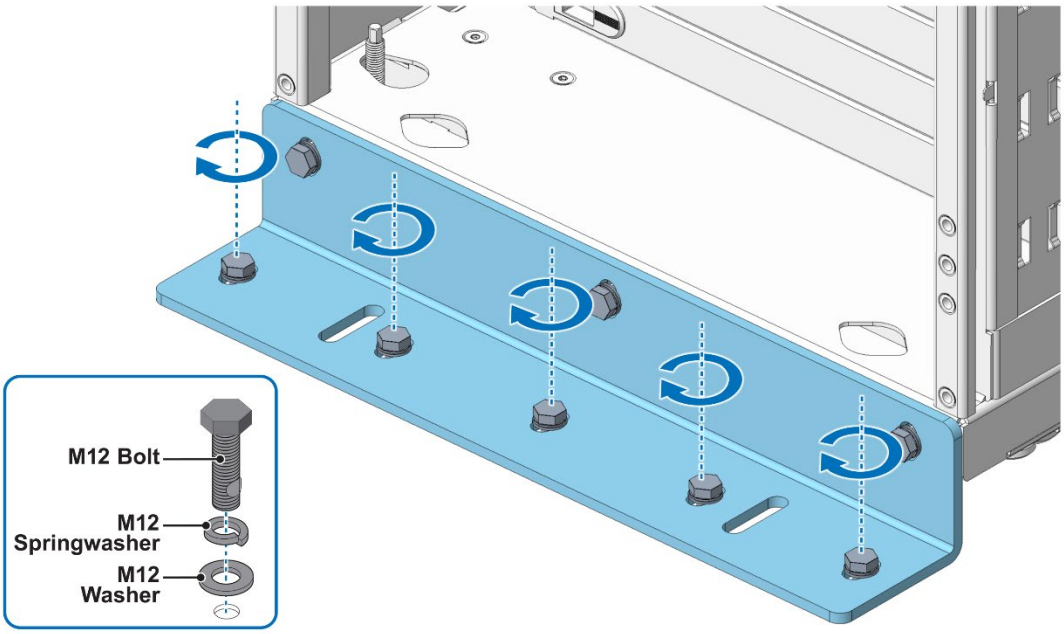
Torque: 371.49 in-lbs ±5%



4 Insert and tighten the data center bolts to secure the anchor bracket to the floor. M12 screws are supported, however the screw type is dependent on the floor type as defined by data center.

5 Tighten the bolts to the specified torque as defined by the data center:

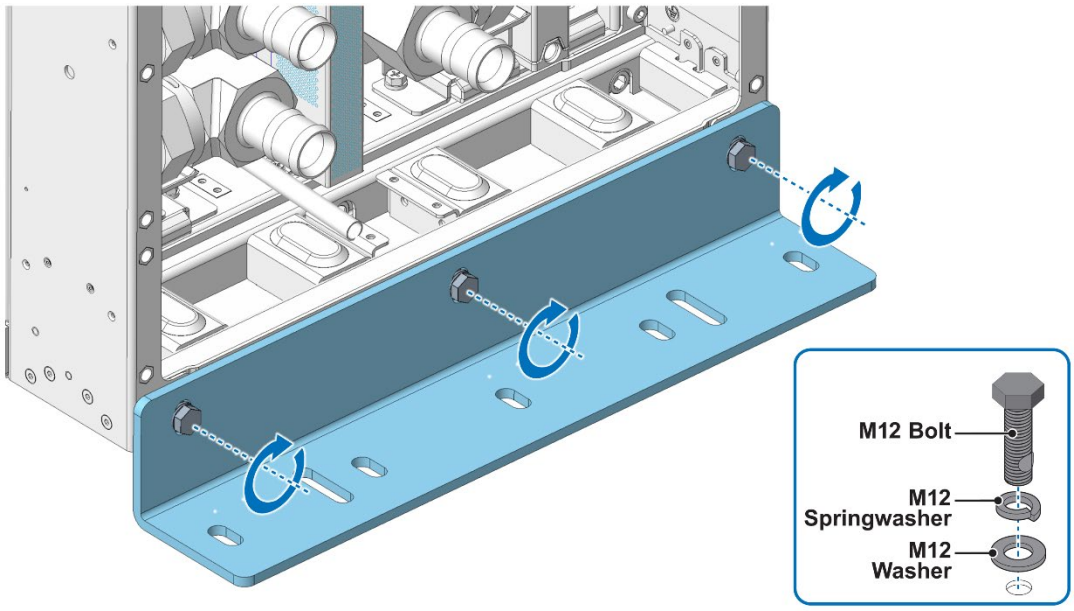
Torque: Defined by data center



6 Secure the rear bracket by fastening the bracket to the rack with the provided bolts.

7 Tighten the bolts to the specified torque:

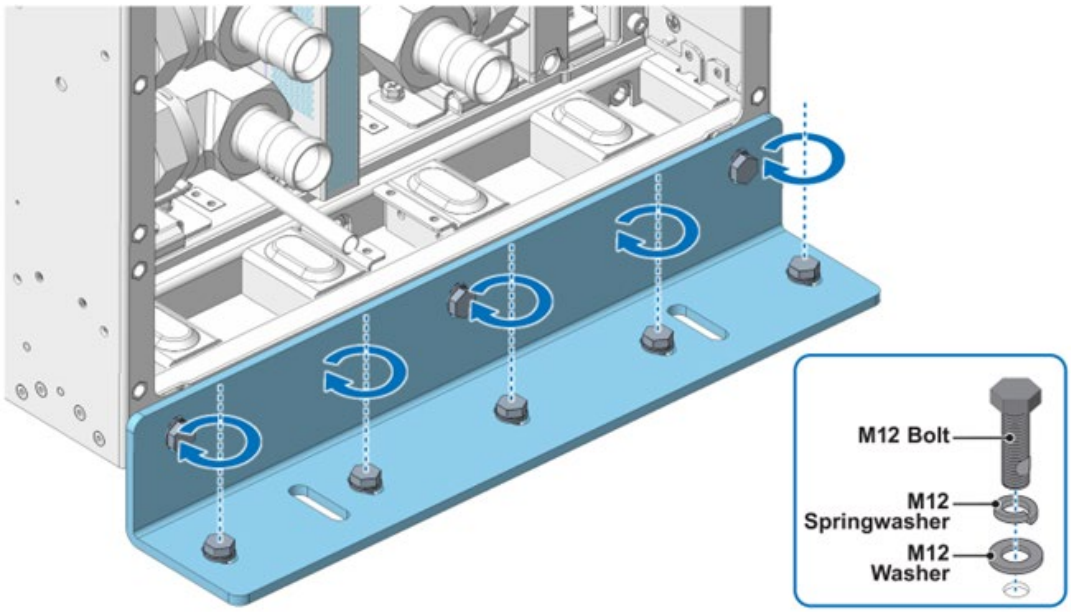
Torque: 371.49 in-lbs ±5%



8 Insert and tighten the data center bolts to secure the anchor bracket to the floor. M12 screws are supported, however the screw type is dependent on the floor type as defined by data center.

9 Tighten the bolts to the specified torque as defined by the data center:

Torque: Defined by data center



Tray Assembly Guide

During installation or removal of any hardware, always ensure all data is backed up properly. Disconnect all cables from the tray and all attached devices from their electrical outlets.

Warnings and cautions

Before installing a tray, be sure that you understand the following warnings and cautions.

⚠ **WARNING:** To reduce the risk of electric shock or damage to the equipment:

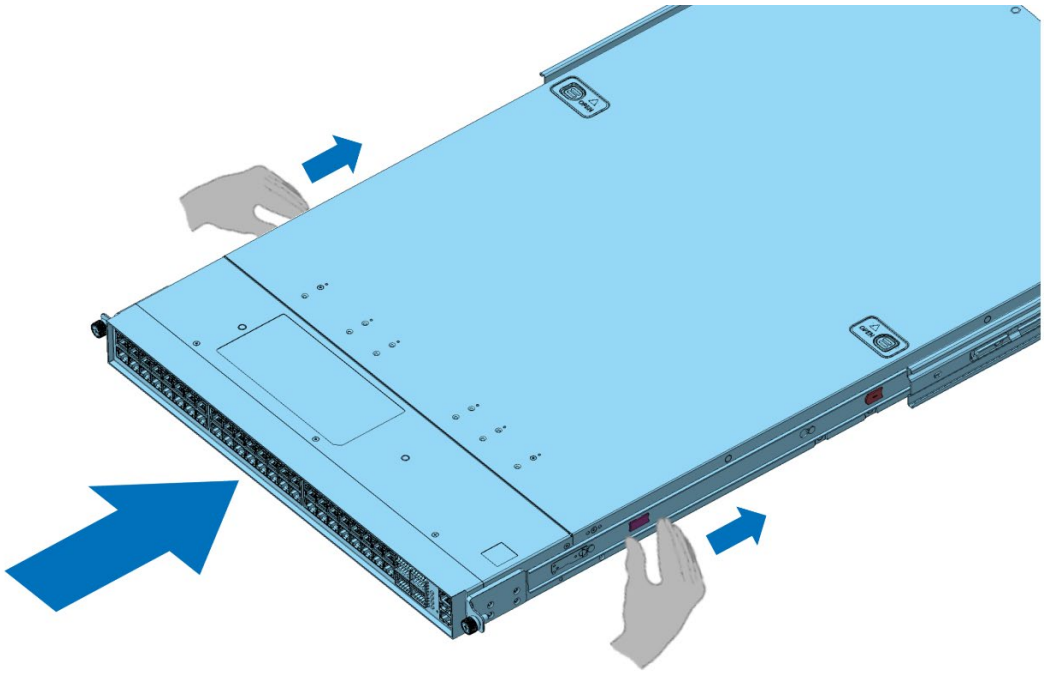
- Do not disable the power cord grounding plug. The grounding plug is an important safety feature.
- Connect the power cord into a grounded (earthed) electrical outlet that is easily accessible at all times.
- Disconnect the power cord from the power supply to disconnect power to the equipment.
- Do not route the power cord where it can be walked on or pinched by items placed against it. Pay particular attention to the plug, electrical outlet, and the point where the cord extends from the rack.

⚠ **CAUTION:** Do not operate the rack for long periods with the access panel open or removed. Operating the rack in this manner results in improper airflow and improper cooling that can lead to thermal damage.

MGMT SW SN2201 Trays

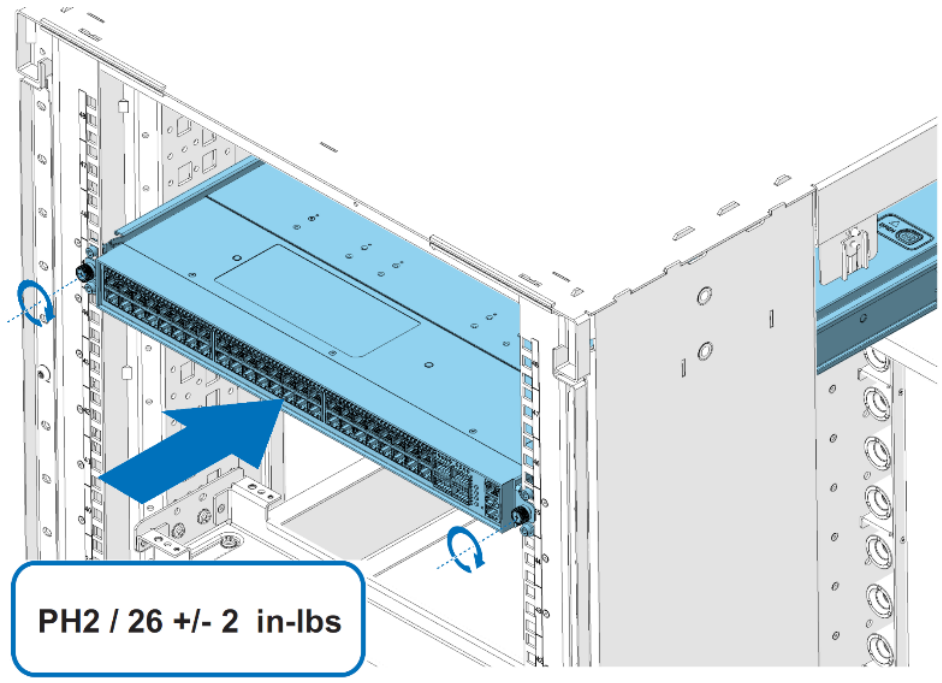
To install the MGMT SW SN2201 Tray

1 Align the MGMT switch with the rack posts and carefully slide the MGMT switch into the Slide Rail. Press the two latches to slide the MGMT switch into the rack.



2 Tighten the two thumbscrews to secure the MGMT SW SN2201 Tray to the rack.

Torque: Philip#2; 3.6 ±0.23 kgf-cm (3.1 ±0.2 in-lbs)

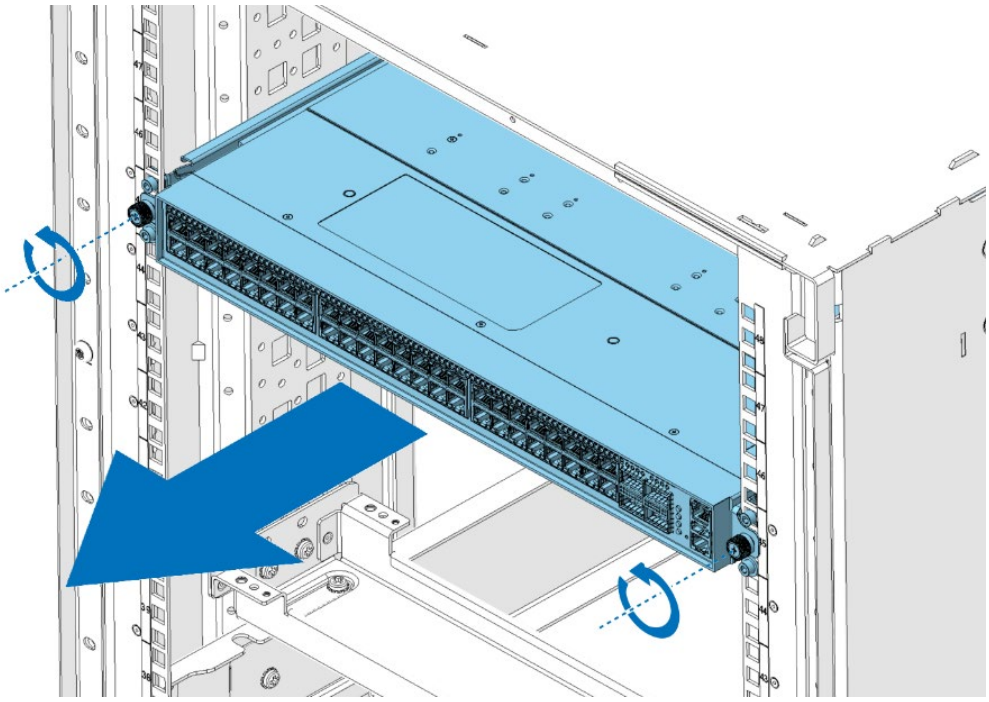


To remove the MGMT SW SN2201Tray

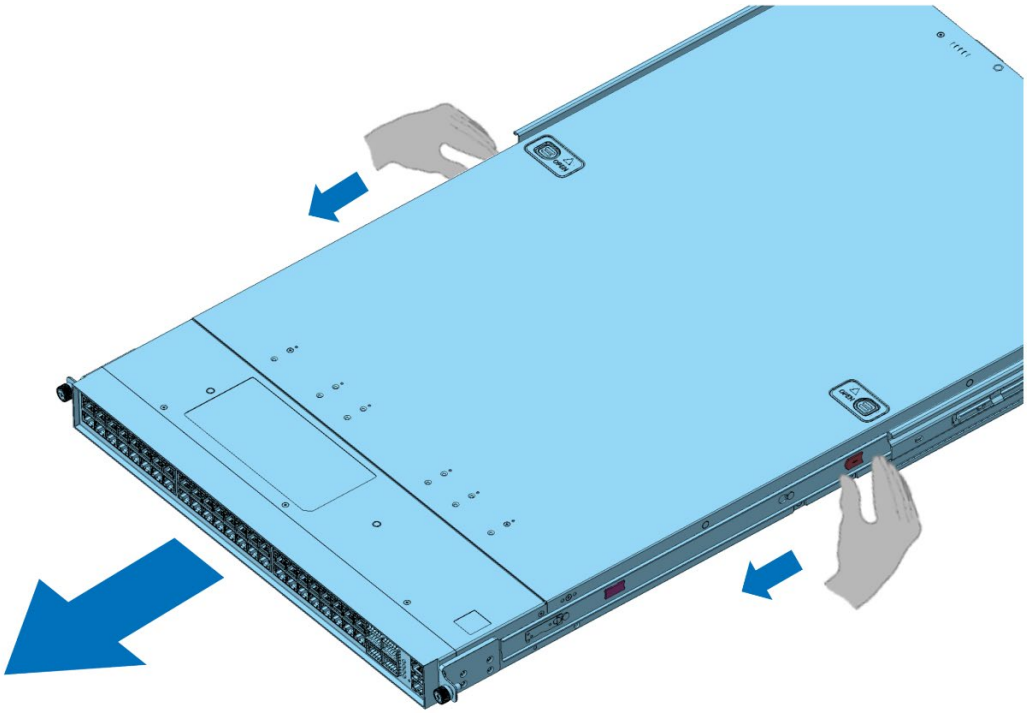
1 Disconnect all cables connected to the switch.

2 Loosen the two thumbscrews using PH#2 screwdriver.

3 Hold the slide rail ears and carefully pull the switch out of the rack.



4 Press the two latches and slide the MGMT Switch out of the Slide Rail.



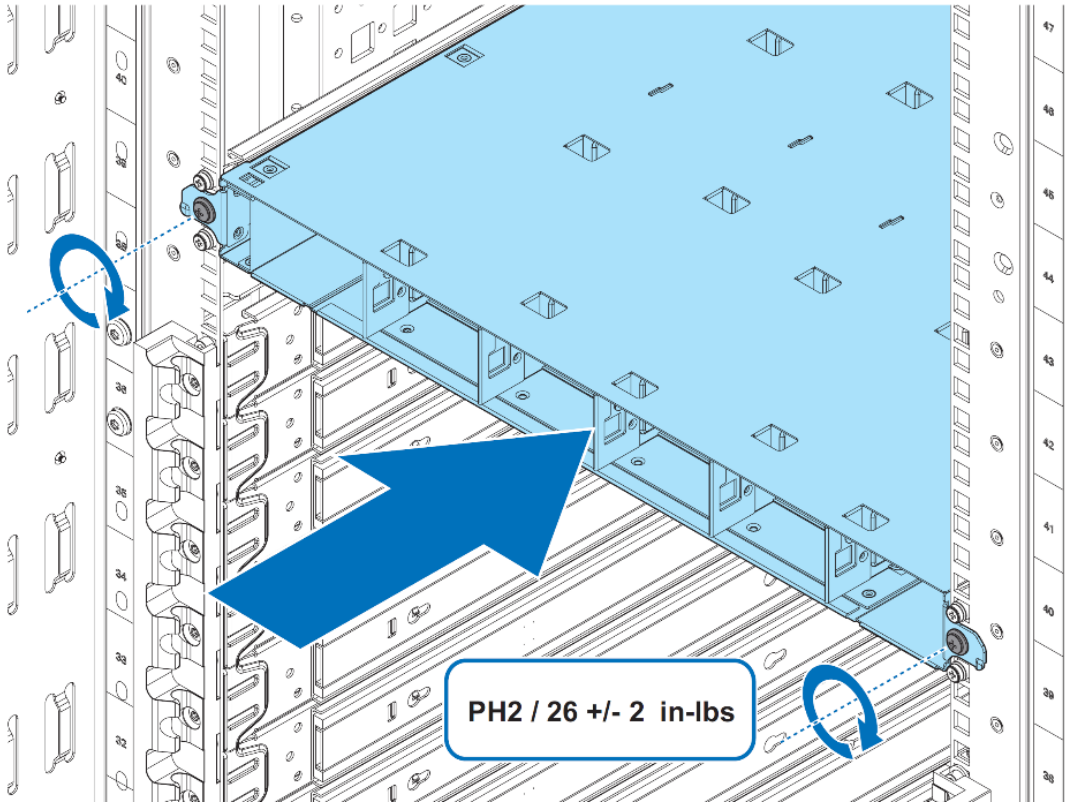
Power Shelf Trays

To install the Power Shelf Tray

1 Align the power shelf with the rack posts and carefully slide the power shelf into the designated space in the rack. Ensure the bracket ears are aligned with the mounting holes on the posts.

2 Use two screws to secure the power shelf to the rack posts. Ensure the screws are tightened to the specified torque.

Torque: 26 ± 2 in-lbs | 30 ± 2.3 Kgf-cm



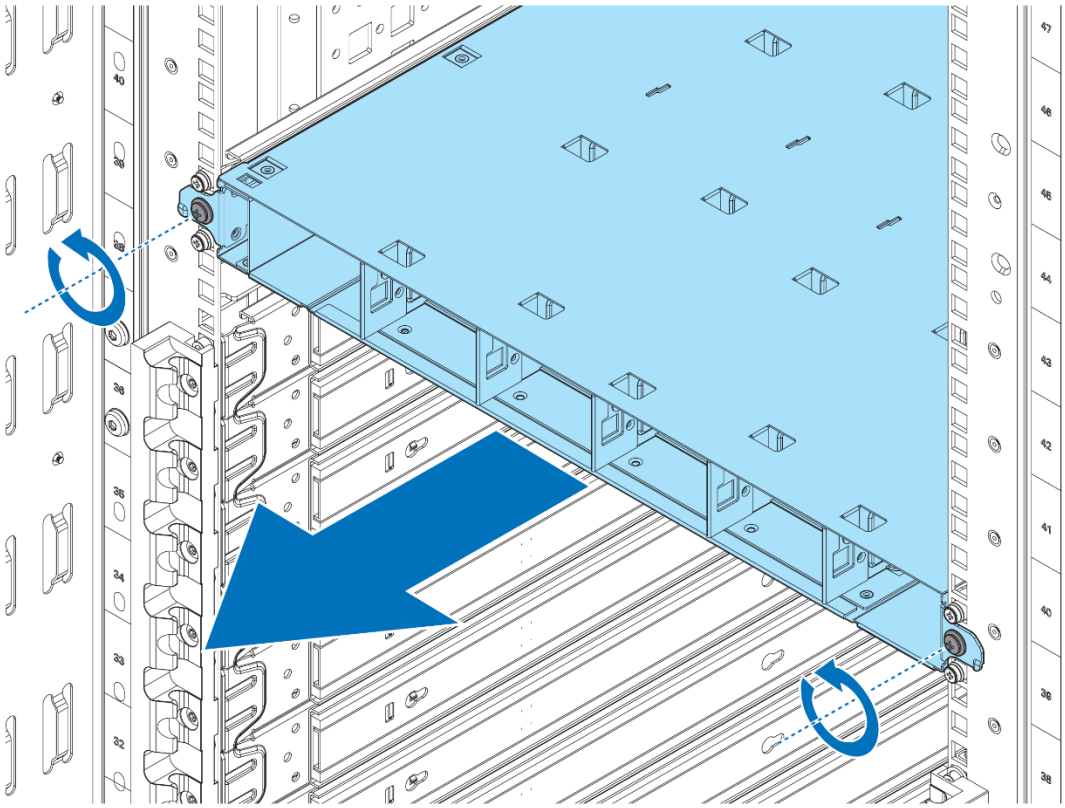
To remove the Power Shelf Tray

1 Disconnect all cables connected to the power shelf tray.

2 Remove all installed PSUs on the tray.

3 Remove the two screws securing the tray to the rack using PH#2 screwdriver.

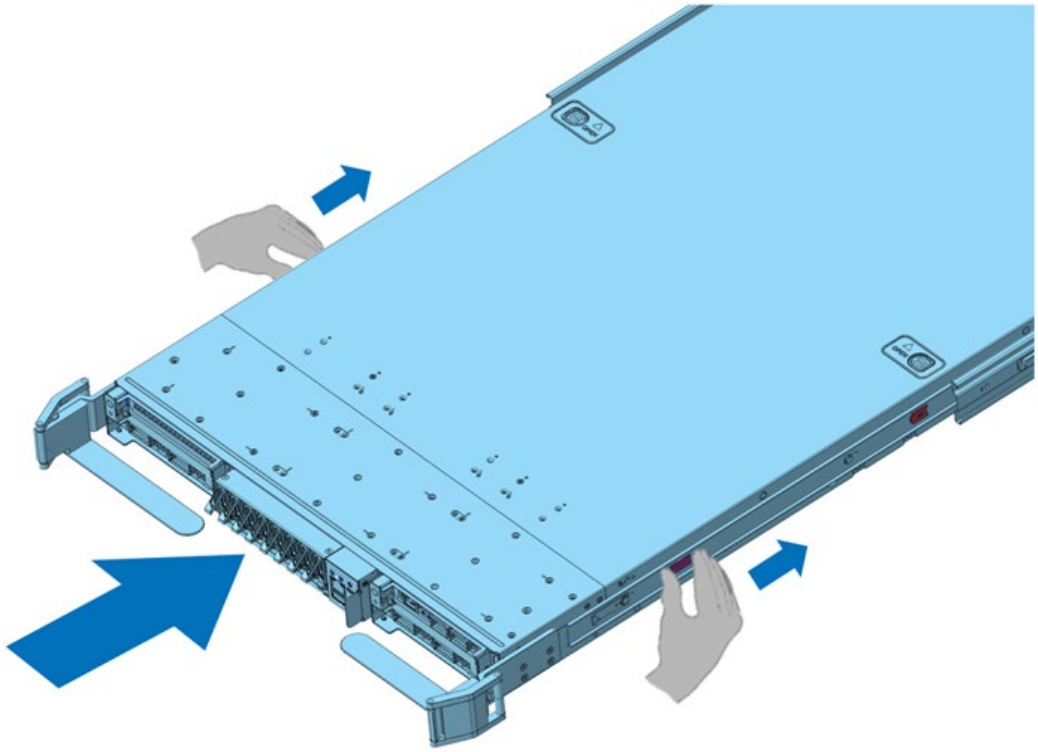
4 Hold the power shelf and slide it out of the rack.



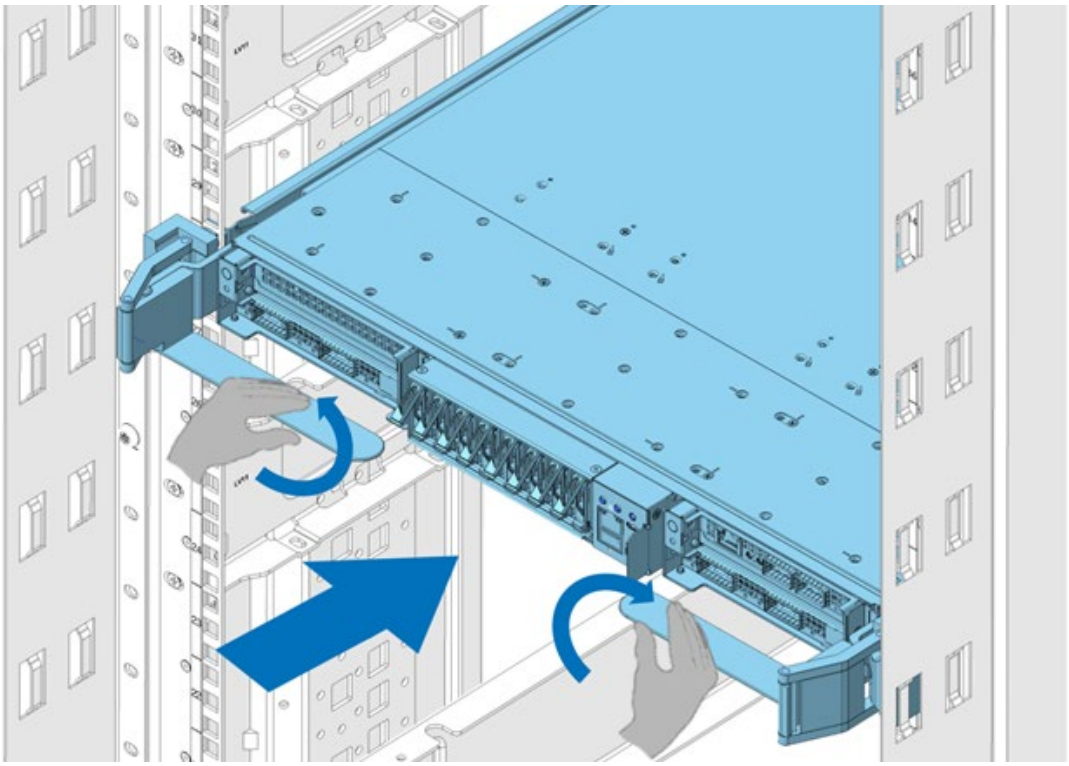
Compute Trays

To install the Compute Tray

1 Align the Compute Tray with the rack posts and carefully slide the Compute Tray into the Slide Rail. Press the two latches to slide the Compute Tray into the rack.



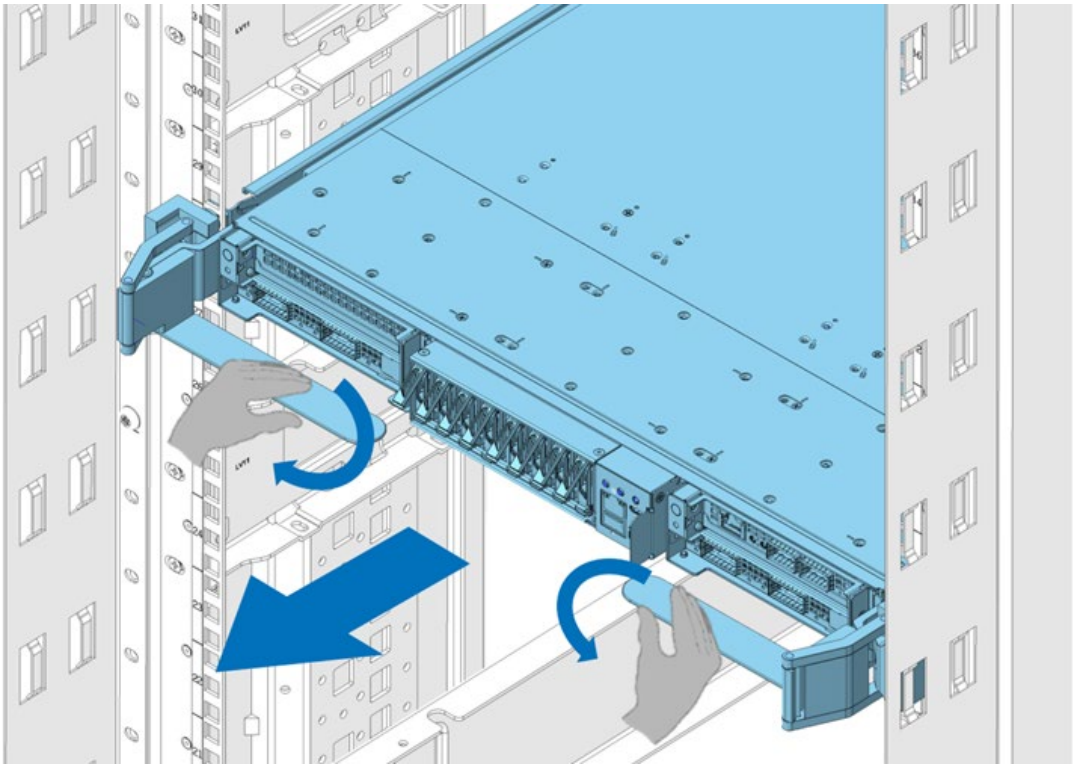
2 Ensure the ears of the handles are aligned with the Cambar on the posts.



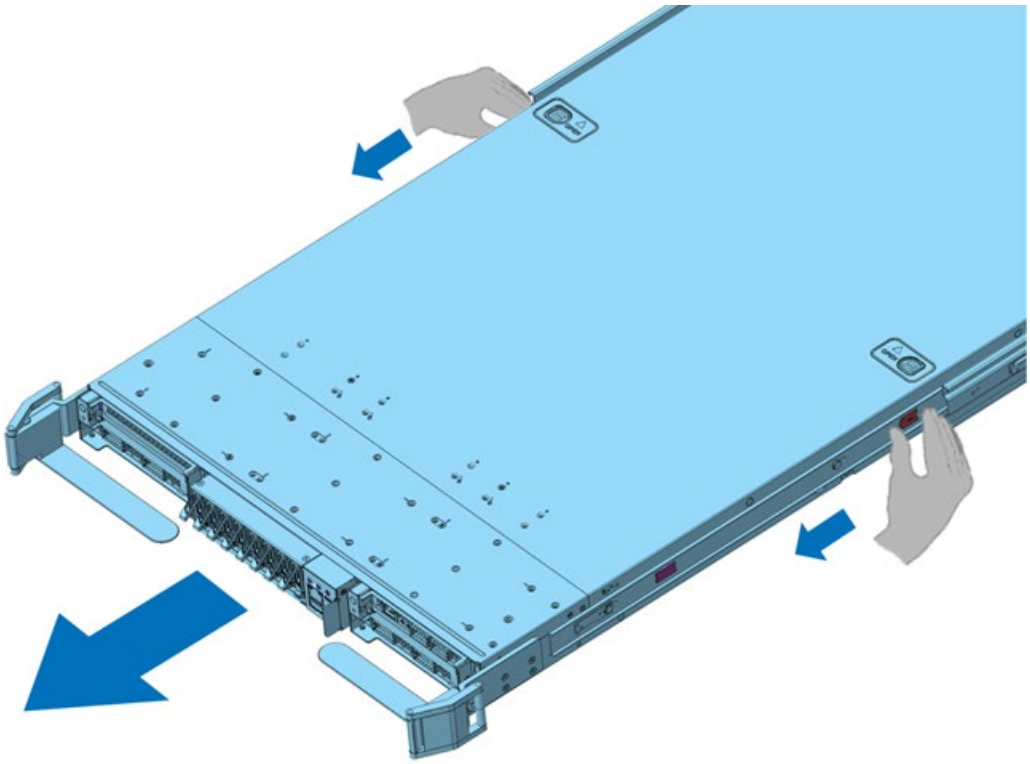
To remove the Compute Tray

1 Disconnect all cables connected to the compute tray.

2 Open two handles and slide the Compute Tray out of the rack.



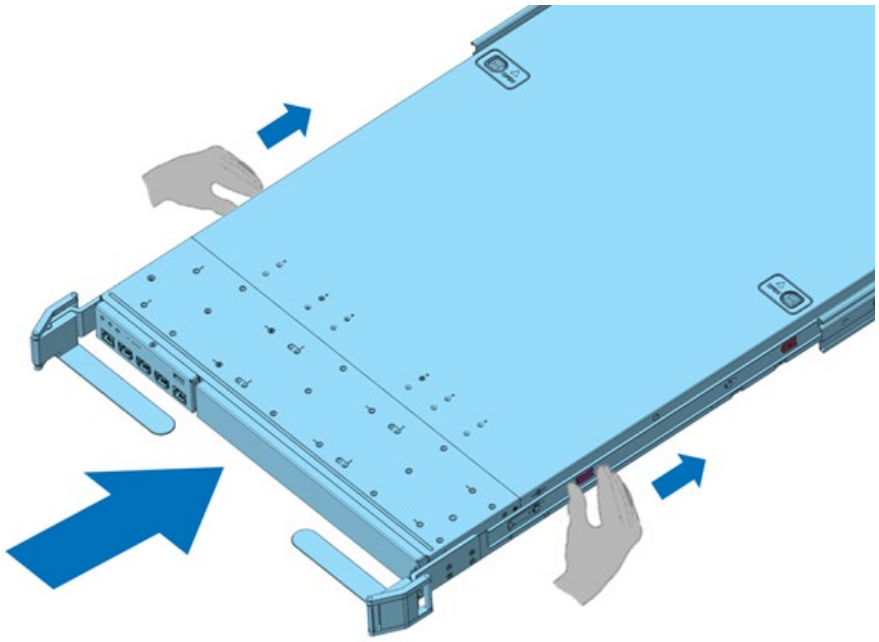
3 Press two latches and slide the Compute Tray out of the Slide Rail.



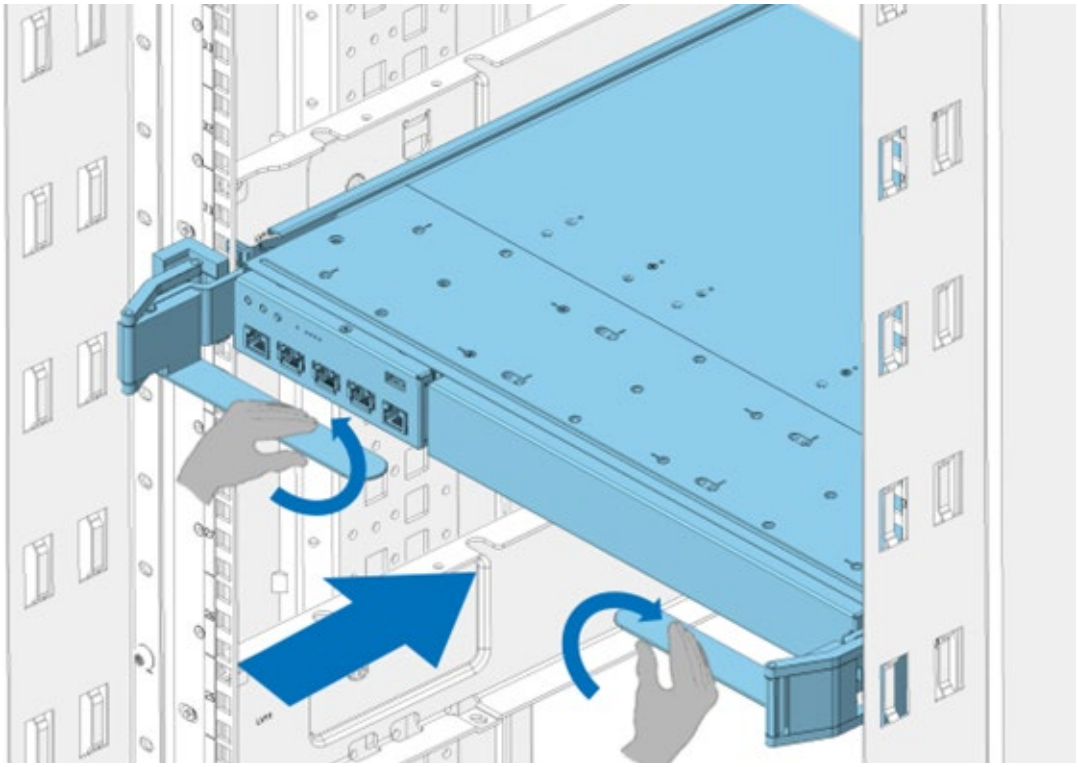
NV Switch Trays

To install the NV Switch Tray

1 Align the NV Switch with the rack posts and carefully slide the NV Switch into the Slide Rail. Press the two latches to slide the NV Switch into the rack.

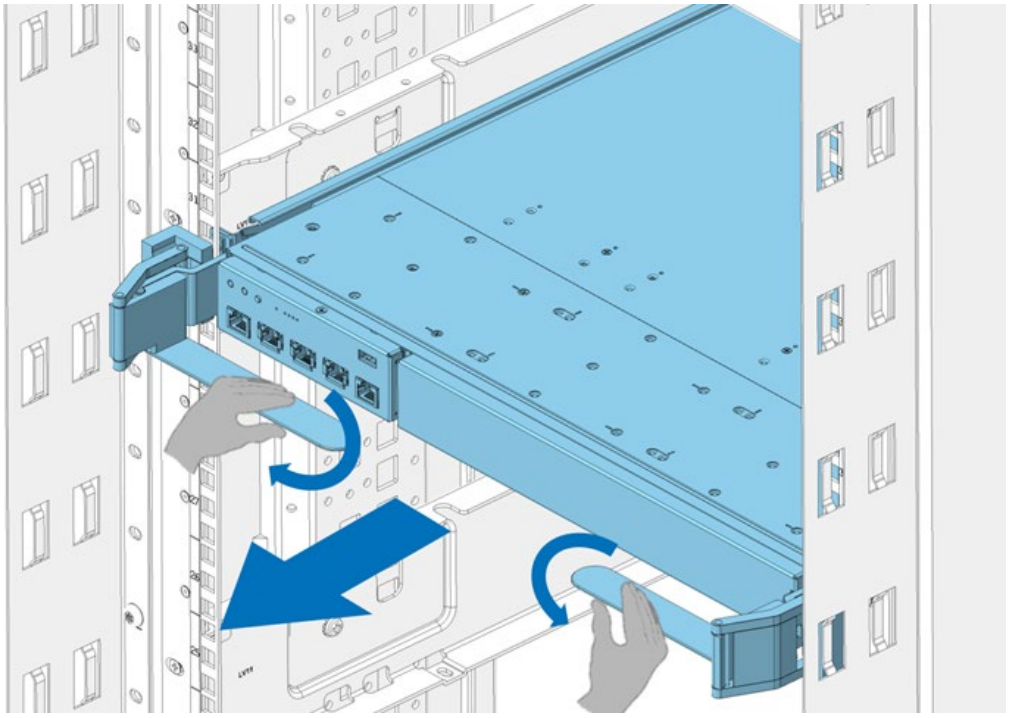


2 Ensure the ears of the handles are aligned with the Cambar on the posts.



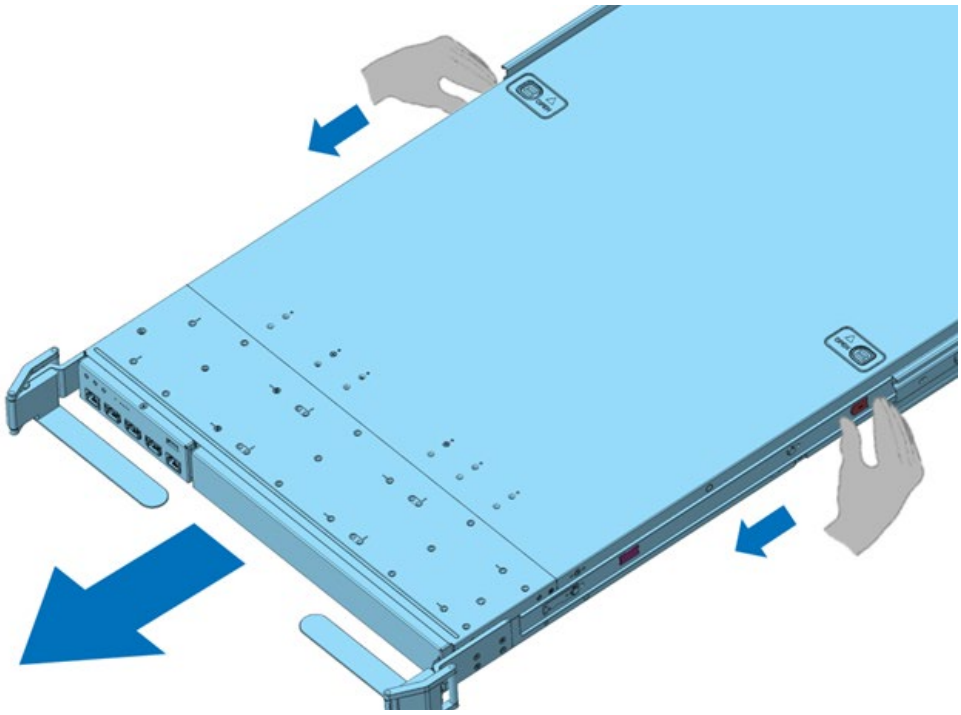
To remove the NV Switch Tray

1 Disconnect all cables connected to the NV Switch tray.



2 Open the two handles and slide the NV Switch out of the rack.

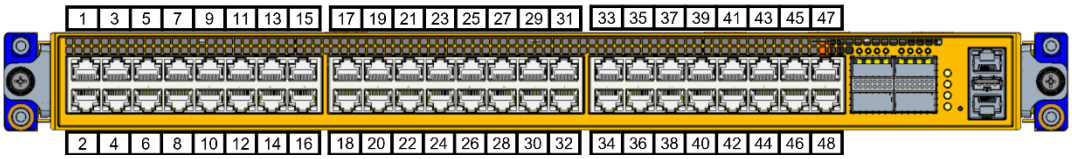
3 Press the two latches and slide the NV Switch out of the Slide Rail.



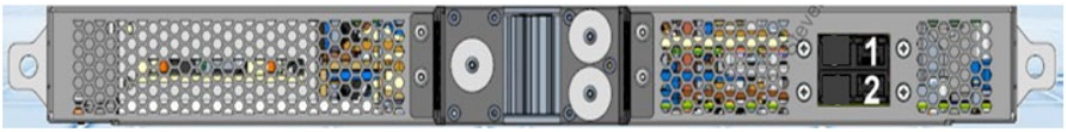
Rack System Cable Routing

Tray Port IDs

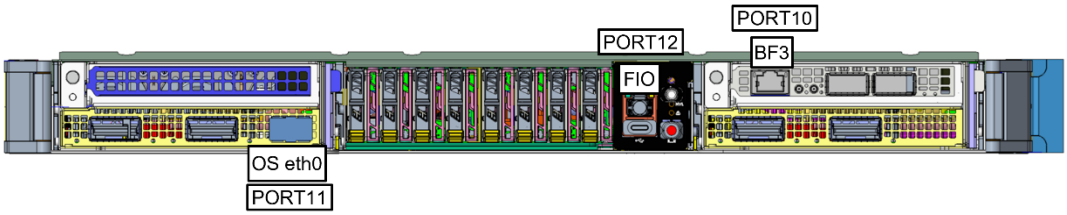
MGMT SW SN2201 Tray



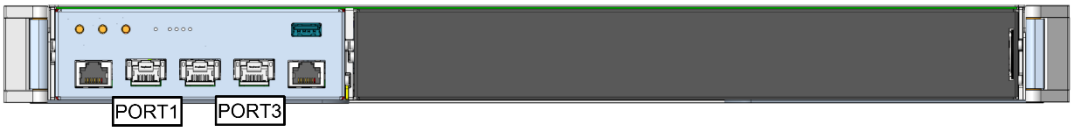
Power Shelf Tray (Rear)



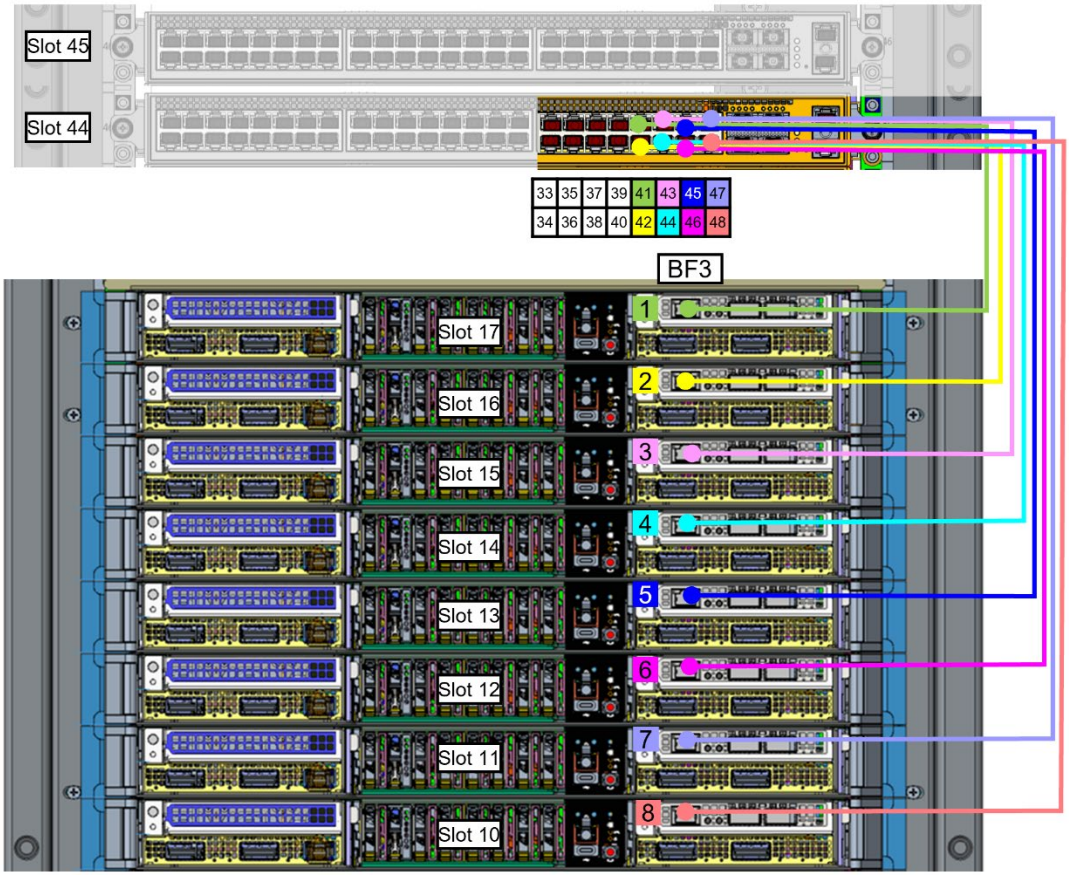
Compute Tray



NV Switch Tray



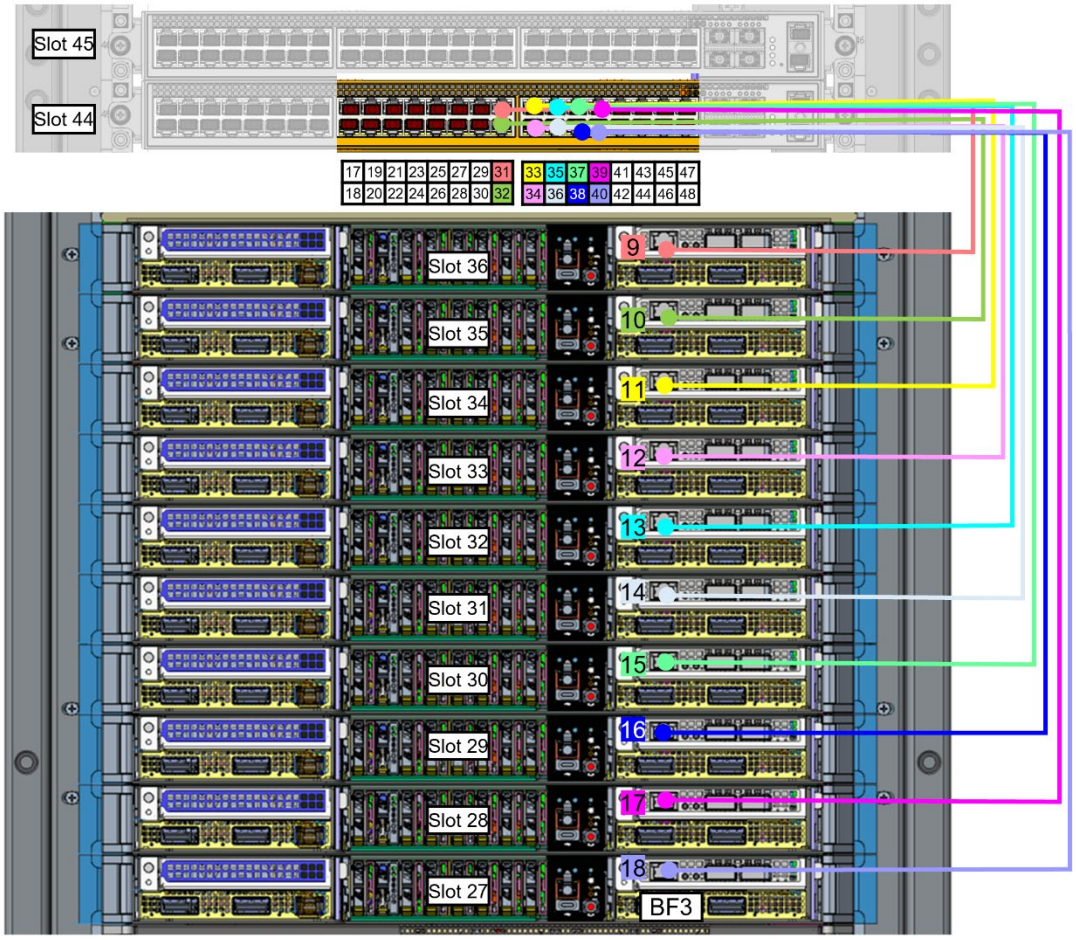
GB300 x8 BF3 Slot 10~17 to Slot 44 – Right



Item	From			To			Qty
	Slot	Port	Label text	Slot	Port	Label text	
1	17	10(BF3)	Bianca Slot 7 BF3 Right BMC Port 41	44	41	BMC Switch Port 41	1
2	16	10(BF3)	Bianca Slot 6 BF3 Right BMC Port 42	44	42	BMC Switch Port 42	1
3	15	10(BF3)	Bianca Slot 5 BF3 Right BMC Port 43	44	43	BMC Switch Port 43	1

4	14	10(BF3)	Bianca Slot 4 BF3 Right BMC Port 44	44	44	BMC Switch Port 44	1
5	13	10(BF3)	Bianca Slot 3 BF3 Right BMC Port 45	44	45	BMC Switch Port 45	1
6	12	10(BF3)	Bianca Slot 2 BF3 Right BMC Port 46	44	46	BMC Switch Port 46	1
7	11	10(BF3)	Bianca Slot 1 BF3 Right BMC Port 47	44	47	BMC Switch Port 47	1
8	10	10(BF3)	Bianca Slot 0 BF3 Right BMC Port 48	44	48	BMC Switch Port 48	1

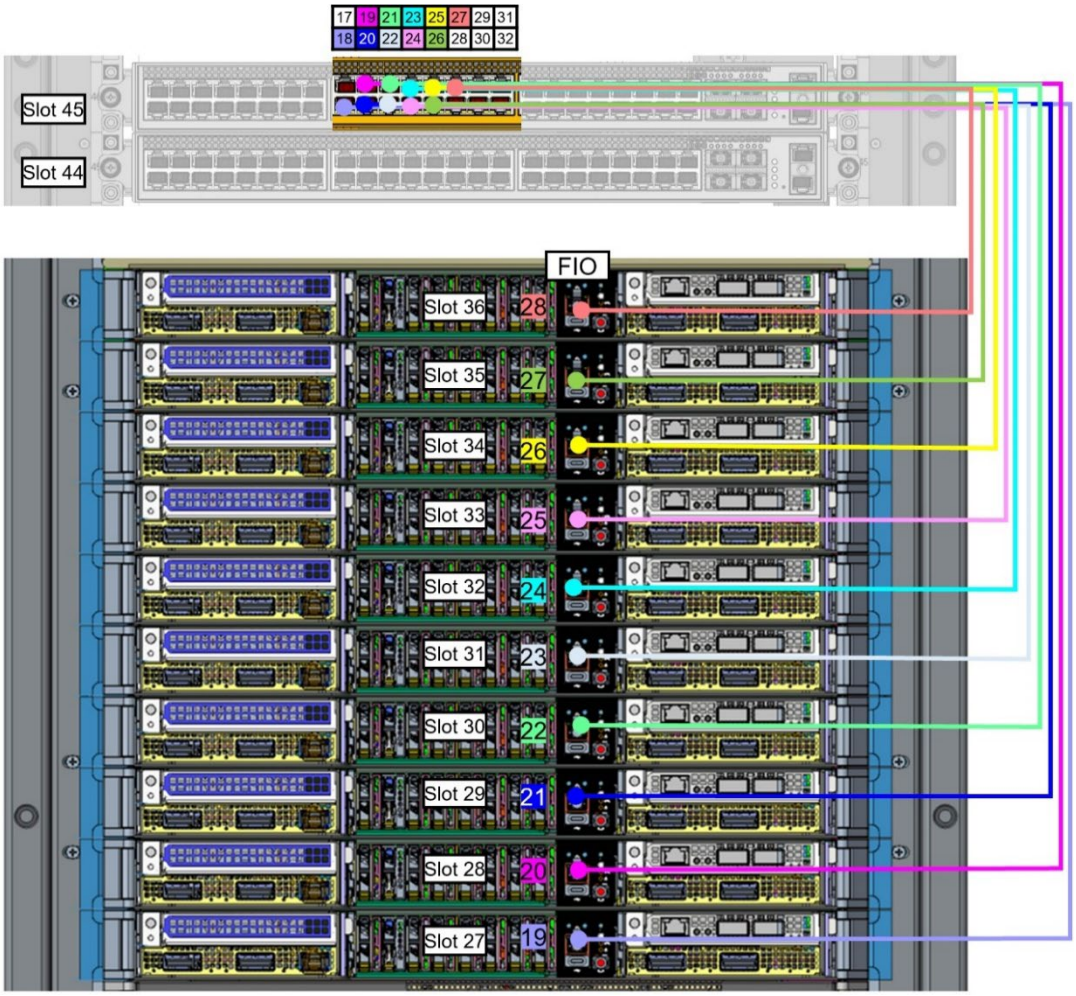
GB300 x10 BF3 Slot 27~36 to Slot 44 – Right



Item	From			To			Qty
	Slot	Port	Label text	Slot	Port	Label text	
9	36	10(BF3)	Bianca Slot 17 BF3 Right BMC Port 31	44	31	BMC Switch Port 31	1
10	35	10(BF3)	Bianca Slot 16 BF3 Right BMC Port 32	44	32	BMC Switch Port 32	1
11	34	10(BF3)	Bianca Slot 15 BF3 Right BMC Port 33	44	33	BMC Switch Port 33	1

12	33	10(BF3)	Bianca Slot 14 BF3 Right BMC Port 34	44	34	BMC Switch Port 34	1
13	32	10(BF3)	Bianca Slot 13 BF3 Right BMC Port 35	44	35	BMC Switch Port 35	1
14	31	10(BF3)	Bianca Slot 12 BF3 Right BMC Port 36	44	36	BMC Switch Port 36	1
15	30	10(BF3)	Bianca Slot 11 BF3 Right BMC Port 37	44	37	BMC Switch Port 37	1
16	29	10(BF3)	Bianca Slot 10 BF3 Right BMC Port 38	44	38	BMC Switch Port 38	1

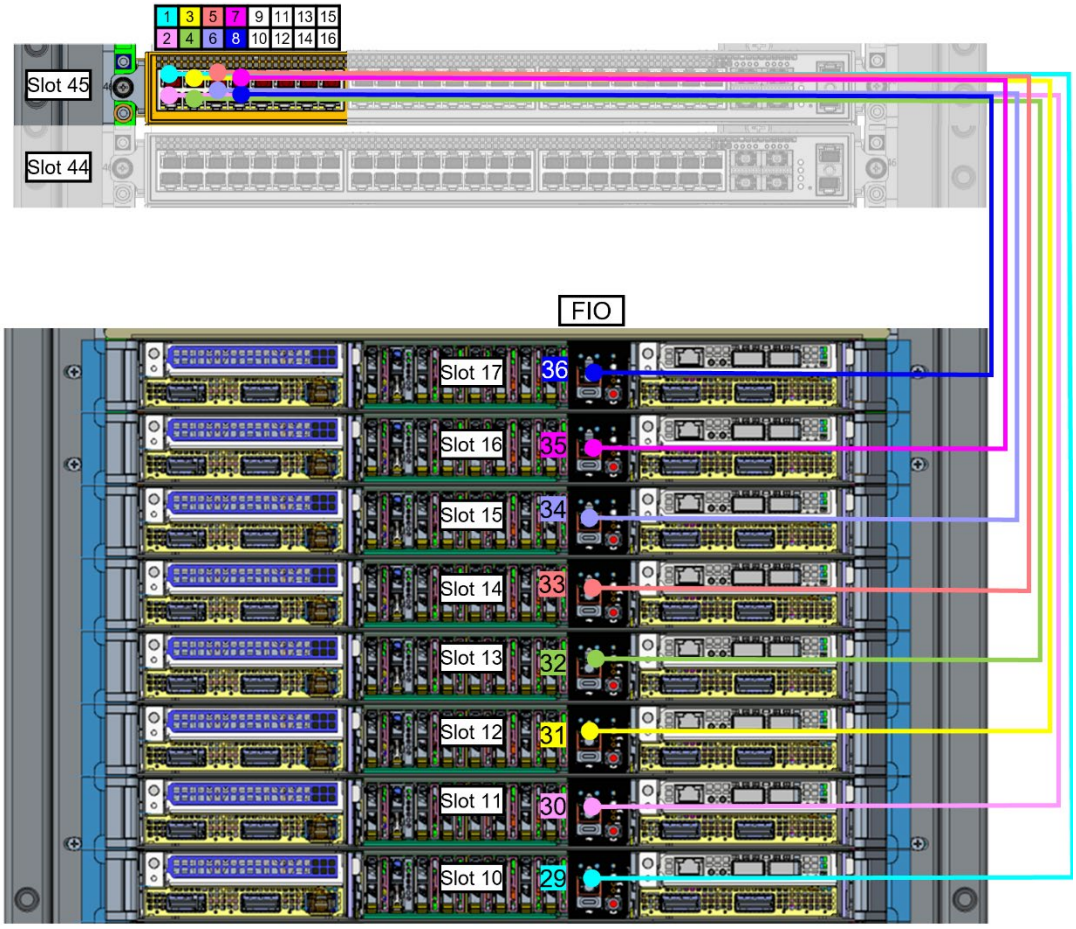
GB300 x10 FIO Slot 27~36 to Slot 45 – Right



Item	From			To			Qty
	Slot	Port	Label text	Slot	Port	Label text	
19	27	12(FIO)	Bianca Slot 8 BMC Port 18	45	18	BMC Switch Port 18	1
20	28	12(FIO)	Bianca Slot 9 BMC Port 19	45	19	BMC Switch Port 19	1

21	29	12(FIO)	Bianca Slot 10 BMC Port 20	45	20	BMC Switch Port 20	1
22	30	12(FIO)	Bianca Slot 11 BMC Port 21	45	21	BMC Switch Port 21	1
23	31	12(FIO)	Bianca Slot 12 BMC Port 22	45	22	BMC Switch Port 22	1
24	32	12(FIO)	Bianca Slot 13 BMC Port 23	45	23	BMC Switch Port 23	1
25	33	12(FIO)	Bianca Slot 14 BMC Port 24	45	24	BMC Switch Port 24	1
26	34	12(FIO)	Bianca Slot 15 BMC Port 25	45	25	BMC Switch Port 25	1
27	35	12(FIO)	Bianca Slot 16 BMC Port 26	45	26	BMC Switch Port 26	1
28	36	12(FIO)	Bianca Slot 17 BMC Port 27	45	27	BMC Switch Port 27	1

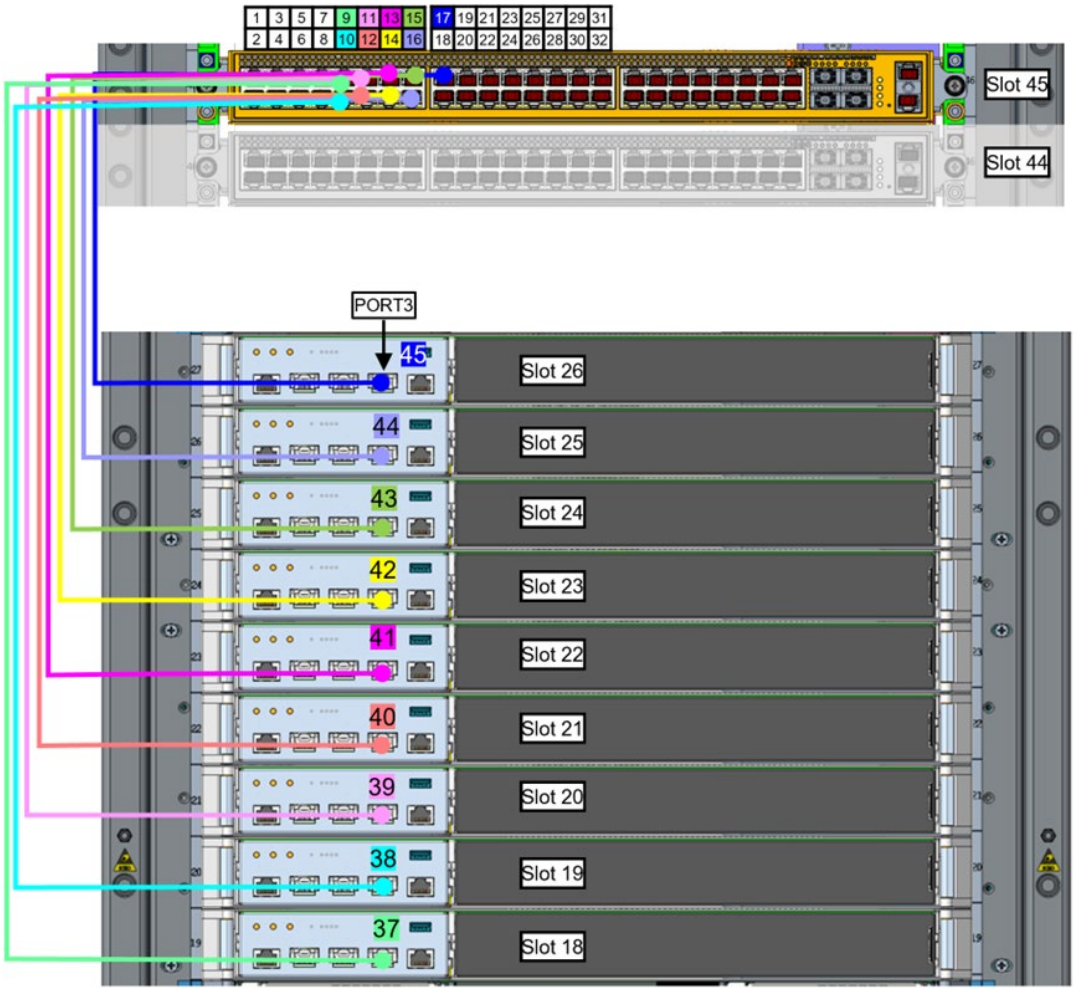
GB300 x8 FIO Slot 10~17 to Slot 45 – Right



Item	From			To			Qty
	Slot	Port	Label text	Slot	Port	Label text	
29	10	12(FIO)	Bianca Slot 0 BMC Port 1	45	1	BMC Switch Port 1	1
30	11	12(FIO)	Bianca Slot 1 BMC Port 2	45	2	BMC Switch Port 2	1
31	12	12(FIO)	Bianca Slot 2 BMC Port 3	45	3	BMC Switch Port 3	1

32	13	12(FIO)	Bianca Slot 3 BMC Port 4	45	4	BMC Switch Port 4	1
33	14	12(FIO)	Bianca Slot 4 BMC Port 5	45	5	BMC Switch Port 5	1
34	15	12(FIO)	Bianca Slot 5 BMC Port 6	45	6	BMC Switch Port 6	1
35	16	12(FIO)	Bianca Slot 6 BMC Port 7	45	7	BMC Switch Port 7	1
36	17	12(FIO)	Bianca Slot 7 BMC Port 8	45	8	BMC Switch Port 8	1

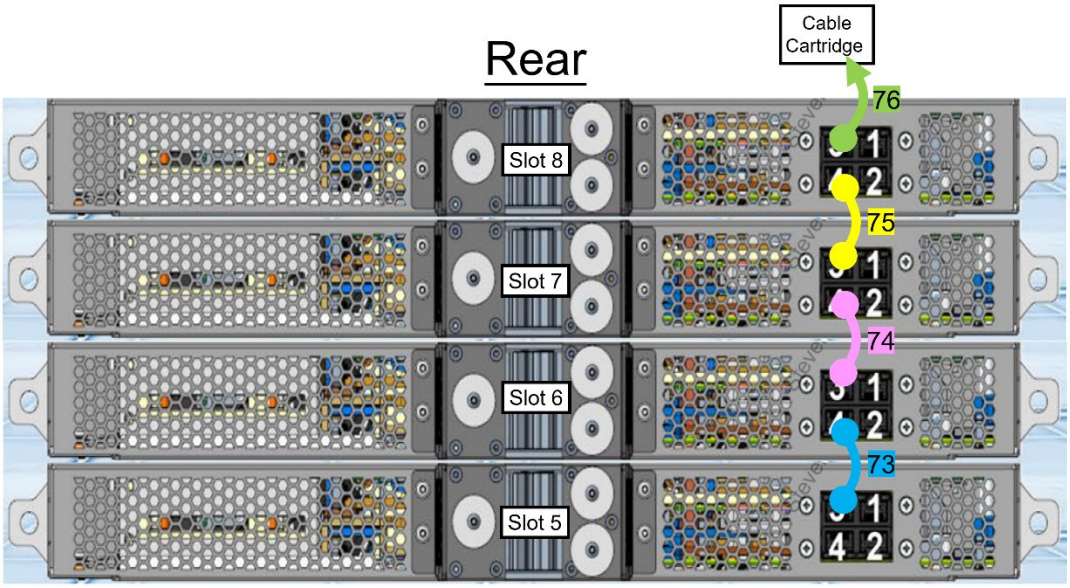
NV Switch Slot 18~26 to Slot 45



Item	From			To			Qty
	Slot	Port	Label text	Slot	Port	Label text	
37	18	3	Juliet Slot 0 BMC Port 9	45	9	BMC Switch Port 9	1
38	19	3	Juliet Slot 1 BMC Port 10	45	10	BMC Switch Port 10	1
39	20	3	Juliet Slot 2 BMC Port 11	45	11	BMC Switch Port 11	1
40	21	3	Juliet Slot 3 BMC Port 12	45	12	BMC Switch Port 12	1

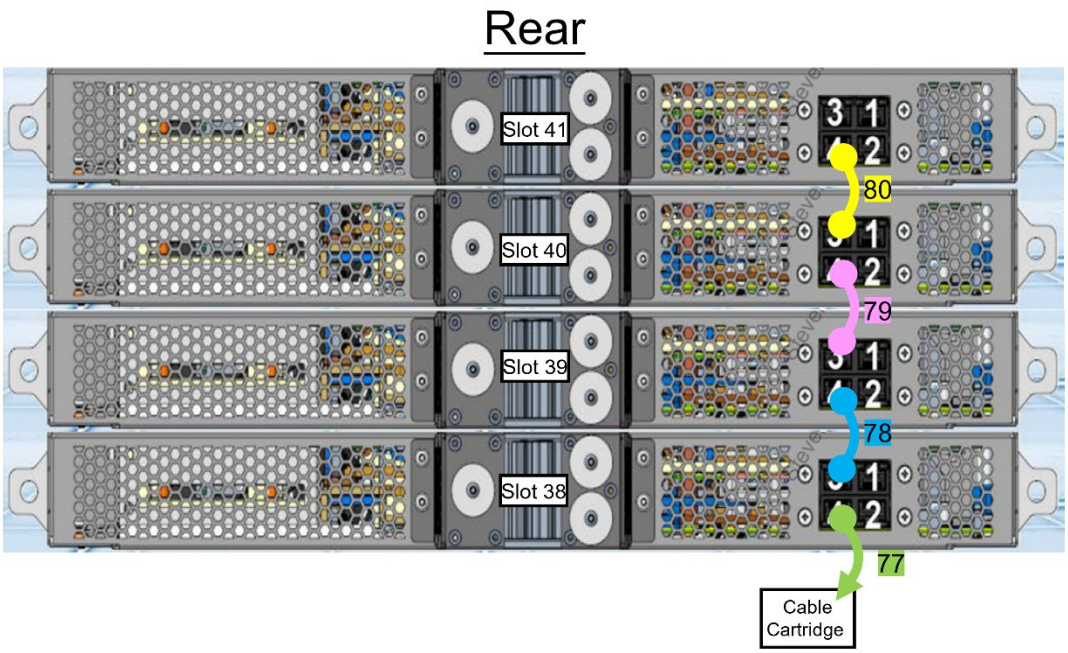
41	22	3	Juliet Slot 4 BMC Port 13	45	13	BMC Switch Port 13	1
42	23	3	Juliet Slot 5 BMC Port 14	45	14	BMC Switch Port 14	1
43	24	3	Juliet Slot 6 BMC Port 15	45	15	BMC Switch Port 15	1
44	25	3	Juliet Slot 7 BMC Port 16	45	16	BMC Switch Port 16	1
45	26	3	Juliet Slot 8 BMC Port 17	45	17	BMC Switch Port 17	1

Power shelf x4 Slot 5~8



Item	From			To			Qty
	Slot	Port	Label text	Slot	Port	Label text	
73	5	3	Power Shelf Sharing	6	4	Power Shelf Sharing	1
74	6	3	Power Shelf Sharing	7	4	Power Shelf Sharing	1
75	7	3	Power Shelf Sharing	8	4	Power Shelf Sharing	1
76	8	3	Power Shelf Sharing	-	Cable Cartridge	Power Shelf Sharing	1

Power shelf x4 Slot 38~41



Item	From			To			Qty
	Slot	Port	Label text	Slot	Port	Label text	
77	-	Cable Cartridge	Power Shelf Sharing	38	4	Power Shelf Sharing	1
78	38	3	Power Shelf Sharing	39	4	Power Shelf Sharing	1
79	39	3	Power Shelf Sharing	40	4	Power Shelf Sharing	1
80	40	3	Power Shelf Sharing	41	4	Power Shelf Sharing	1

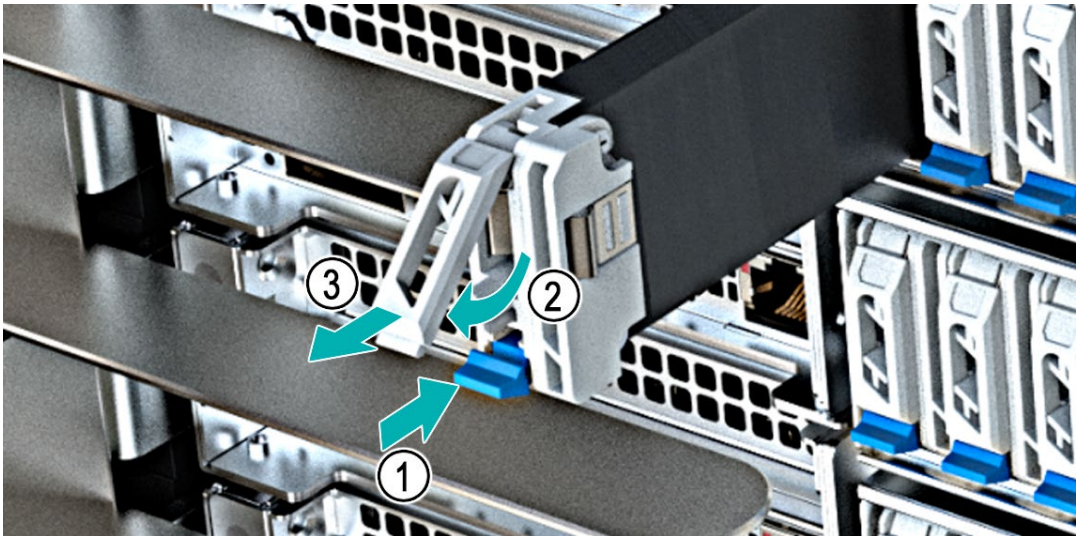
CRU Part Assembly Guide

Storage

To remove the E1.s NVMe drive

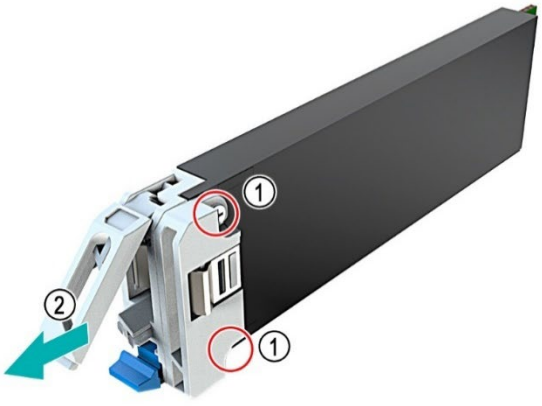
A Remove the E1.s NVMe carrier assembly from the chassis:

1) Push the drive carrier button to disengage the drive carrier bezel.
2) Pull the drive carrier bezel to detach the carrier assembly from the chassis.
3) Remove the carrier assembly from the chassis.



B Remove the E1.s NVMe drive from the carrier:

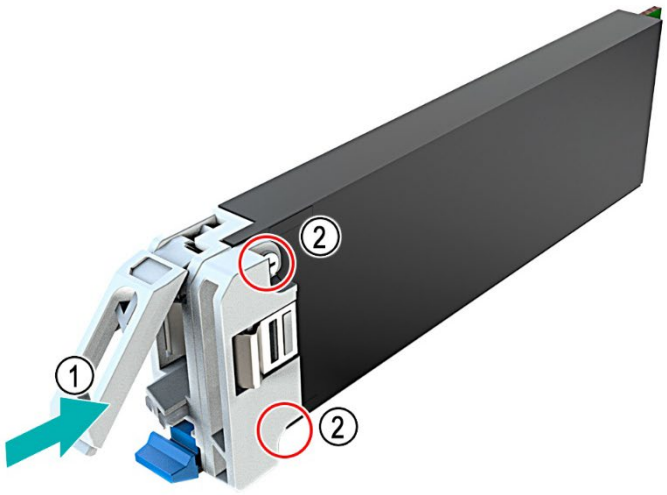
1) Remove the two screws.
2) Remove the E1.s NVMe drive from the carrier.



To replace the E1.s NVMe drive

A Install the E1.s NVMe drive to the carrier:

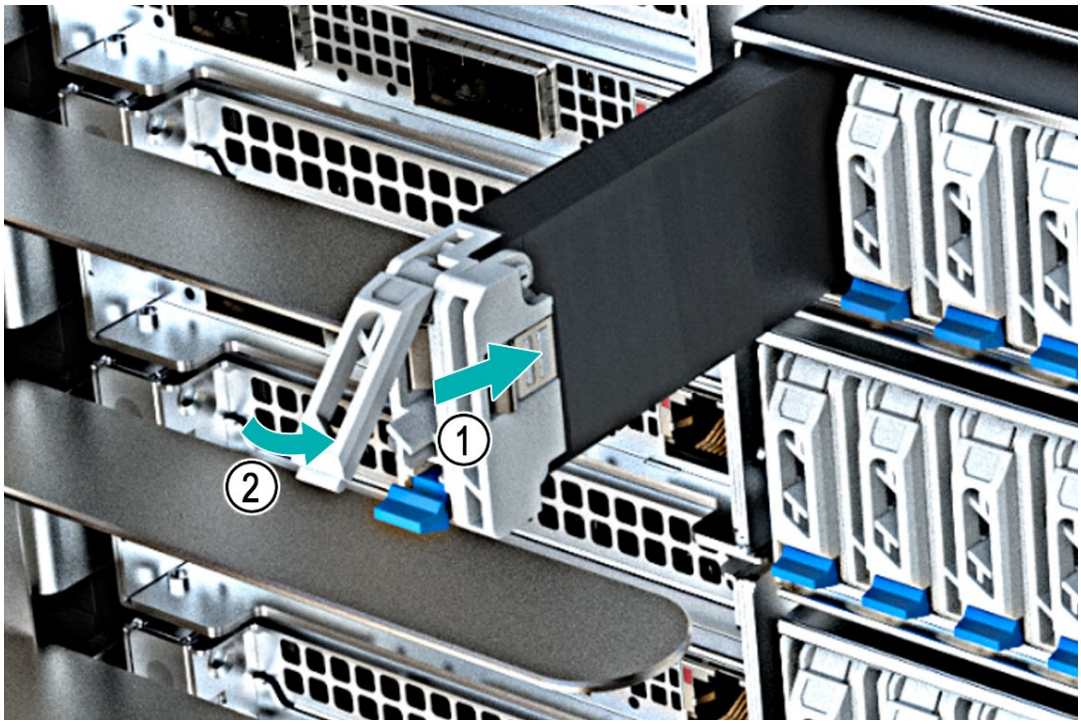
1) Place the E1.s NVMe drive into the chassis.
2) Use two screws to secure the E1.s NVMe drive to the carrier.



B Install E1.s NVMe carrier assembly to the chassis:

1) Place the E1.s NVMe carrier assembly into the chassis.

2) Push the carrier assembly into the chassis until it latches into place.



Power supply

CAUTION: Replace all cut cable ties during removal and replacement procedure. Failure to do so results in improper airflow that can lead to thermal damage.

WARNING: To reduce the risk of injury from electric shock, remove all power cords to disconnect power from the system completely.

To remove the redundant power supply unit

1 Press the latch to disengage the power supply from the power shelf tray.

2 Pull the handle to detach the power supply while still pressing the latch.



To replace the redundant power supply unit

1 Push the new power supply into the power shelf tray until it locks into place.



Switch Flash & Settings

This section provides information about switch flash and default settings.

MGMT SW SN2201 Switch

SN2201 Flash

1 Login into cumulus OS:

$ ssh cumulus@<SN2201_OSIP> # Default user/password: cumulus/cumulus

2 Read current FW version:

$ lsb_release -a

3 Copy FW to SW:

$ scp <cumulus-linux.bin> cumulus@<SN2201_OSIP>:~

4 Flash

$ sudo su

$ chmod 777 <cumulus-linux.bin>

$ onie-install -a -i <cumulus-linux.bin>

5 Reboot switch

$ reboot

6 Wait it install and reboot success, check version again.

Port Setting

7 Setting:

$ nv set interface swp1-52 bridge domain br_default # All port set into default bridge

$ nv config apply

$ nv config save

8 Check bridge forwarding:

$ nv show bridge domain br_default port

NVLink Switch

NVSW Flash

1 Display the image that is currently available.

$ nv show system image

operational applied

--

current <old_image>

next <old_image>

partition1 <old_image>

2 Install NVOS Image.

$ sshpass -p <NVSW_password> scp <NVSW_FW.bin> admin@<NVSW_OSIP>:/host/nosimages/

#Default user/password: admin/admin

$ nv action install system image files <NVSW_FW.bin>

3 If there are partition1/partition2, uninstall the old image

$ nv show system image

$ nv action uninstall system image

$ nv action reboot system

NVSW NMX-controller Setting

1 Disable all NVswitch

$ nv set cluster state disabled

$ nv config apply

$ nv config save

2 Select one to the control switch

$ nv set cluster state enabled

$ nv config apply

$ nv config save

3 Ensure cluster status

$ nv show cluster apps running

Name Status Reason Additional Information

----

nmx-controller not ok GFM: UNINITIALIZED CONTROL_PLANE_STATE_UNCONFIGURED

nmx-telemetry ok

4 Create a "chassis_ids.cfg" (in client server)

An example in NV bring guide:

chassisId1 1783724160070 #for GB200

$ nv action fetch sdn config app nmx-controller type chassis_mapping scp://<Client_user>:< Client_password>: @<Client_IP>/root/chassis_ids.cfg
$ nv show sdn config app nmx-controller type chassis_mapping files
$ nv action install sdn config app nmx-controller type chassis_mapping files chassis_ids.cfg

5 Select the appropriate set of options to add to the "fm_config.cfg" file. " (in client server)

$ nv action generate sdn config app nmx-controller type fm_config
$ nv action upload sdn config app nmx-controller type fm_config files nmxcontroller_ fm_config_202XXXXXXXXX scp://<Client_user>:< Client_password>: @<Client_IP>/root/fm_config.cfg

----

$ vim fm_config.cfg # modified in client server.

MNNVL_TOPOLOGY=gb200_nvl72r1_c2g4_topology #for GB200

MNNVL_TOPOLOGY=gb300_nvl72r1_c2g4_topology #for GB300

$ nv action fetch sdn config app nmx-controller type fm_config scp ://<Client_user>:< Client_password>: @<Client_IP>/root/fm_config.cfg
$ nv show sdn config app nmx-controller type fm_config files
$ nv action install sdn config app nmx-controller type fm_config files fm_config.cfg
$ nv action stop cluster apps nmx-controller
$ nv action start cluster apps nmx-controller

6 Confirm that the status of NMX-controller is shown as ok. (Wait almost 5mins)

$ nv show cluster apps

Name	ID	Version	Capabilities	Components Version	Status	Reason	Additional Information	Summary
nmx-controller	nmx-c-nvos	1.2.0_2025-06-19_07-51	sm, gfm, fib, gw-api	sm:2025.03.9, gfm:570.158.05, fib:1.2.0_2025-06-19_07-51	ok		CONTROL_PLANE_STATE_CONFIGURED	
nmx-telemetry	nmx-telemetry	1.2.0	nvl telemetry, gnmi aggregation, syslog	nvl-telemetry:1.20.4, gnmi-aggregator:1.6.2, nmx-connector:1.6.2	ok			

7 If NMX-controller status does not show ok, try rebooting the switch tray and check the status again.

$ nv action reboot system

8 If NMX-controller status does not show ok, try to AC whole RACK

Safety Information

This section provides information about how to safely use the NML72-GB300 Rack system.

To reduce the risk of bodily injury, electrical shock, fire, and equipment damage, read this document and observe all warnings and precautions in this guide before installing or maintaining your device.

In the event of a conflict between the information in this document and information provided with the product or on the website for a particular product, the product documentation takes precedence.

Your server should be integrated and serviced only by technically qualified people.

You must adhere to the guidelines in this guide and the assembly instructions in your server manuals to ensure and maintain compliance with existing product certifications and approvals. Use only the described, regulated components specified in this guide. Use of other products I components will void the UL Listing and other regulatory approvals of the product and may result in noncompliance with product regulations in the region(s) in which the product is sold.

Warnings and Cautions

To avoid personal injury or property damage, before you begin installing the product, read, observe, and adhere to all of the following safety instructions and information.

The following safety symbols may be used throughout the documentation and may be marked on the product and the product packaging.



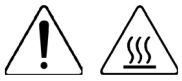
This symbol indicates the presence of hazardous energy circuits or electric shock hazards. Refer all servicing to qualified personnel.

WARNING: To reduce the risk of injury from electric shock hazards, do not open this enclosure. Refer all maintenance, upgrades, and servicing to qualified personnel.



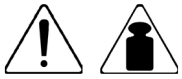
This symbol indicates the presence of electric shock hazards. The area contains no user or field serviceable parts. Do not open for any reason.

WARNING: To reduce the risk of injury from electric shock hazards, do not open this enclosure.



This symbol indicates the presence of a hot surface or hot component. If this surface is contacted, the potential for injury exists.

WARNING: To reduce the risk of injury from a hot component, allow the surface to cool before touching.



12.92 kg
28.48 lb

This symbol indicates that the component exceeds the recommended weight for one individual to handle safely.

WARNING: To reduce the risk of personal injury or damage to the equipment, observe local occupational health and safety requirements and guidelines for manual material handling.



These symbols, on power supplies or systems, indicate that the equipment is supplied by multiple sources of power.

WARNING: To reduce the risk of injury from electric shock, remove all power cords to disconnect power from the system completely.



This symbol indicates the presence of a moving fan blade.

WARNING: To reduce the risk of personal injury or damage to the equipment, please keep body parts away from fan blades if access panel is open.

Intended Application Uses

This product was evaluated as Information Technology Equipment (ITE), which may be installed in offices, schools, computer rooms, and similar commercial type locations. The suitability of this product for other product categories and environments (such as medical, industrial, residential, alarm systems, and test equipment), other than an ITE application, may require further evaluation.

Site Selection

Choose a site that is:

- Clean, dry, and free of airborne particles (other than normal room dust).
- Well-ventilated and away from sources of heat including direct sunlight and radiators.
- Away from sources of vibration or physical shock.
- In regions that are susceptible to electrical storms, we recommend you plug your system into a surge suppressor and disconnect telecommunication lines to your modem during an electrical storm.
- Provided with a properly grounded wall outlet.
- Provided with sufficient space to access the power supply cord(s), because they serve as the product's main power disconnect.

Equipment Handling Practices

To reduce the risk of personal injury or equipment damage, do the following:

- Conform to local occupational health and safety requirements when moving and lifting equipment.
- Use mechanical assistance or other suitable assistance when moving and lifting equipment.

Electrical Precautions

Power and Electrical Warnings

⚠ **CAUTION:** The power button, indicated by the stand-by power marking, DOES NOT completely turn off the system AC power; standby power is active whenever the system is plugged in. To remove power from system, you must unplug the AC power cord from the wall outlet. Make sure all AC power cords are unplugged before you open the chassis, or add or remove any non hot-plug components.

Do not attempt to modify or use an AC power cord if it is not the exact type required. A separate AC cord is required for each system power supply.

Some power supplies in servers use Neutral Pole Fusing. To avoid risk of shock use caution when working with power supplies that use Neutral Pole Fusing. The power supply in this product contains no user-serviceable parts. Do not open the power supply. Hazardous voltage, current and energy levels are

present inside the power supply. Return to manufacturer for servicing. When replacing a hot-plug power supply, unplug the power cord to the power supply being replaced before removing it from the server. To avoid risk of electric shock, tum off the server and disconnect the power cords, telecommunications systems, networks, and modems attached to the server before opening it.

Power Cord Warnings

⚠ **CAUTION:** To avoid electrical shock or fire, check the power cord(s) that will be used with the product as follows:

- Do not attempt to modify or use the AC power cord(s) if they are not the exact type required to fit into the grounded electrical outlets.
- The power cord(s) must meet the following criteria:
  - The power cord must have an electrical rating that is greater than that of the electrical current rating marked on the product.
  - The power cord must have safety ground pin or contact that is suitable for the electrical outlet.
  - The power supply cord(s) is/ are the main disconnect device to AC power. The socket outlet(s) must be near the equipment and readily accessible for disconnection.
  - The power supply cord(s) must be plugged into socket-outlet(s) that is /are provided with a suitable earth ground.

System Access Warnings

To avoid personal injury or property damage, the following safety instructions apply whenever accessing the inside of the product:

- Turn off all peripheral devices connected to this product.
- Turn off the system by pressing the power button to off.
- Disconnect the AC power by unplugging all AC power cords from the system or wall outlet.
- Disconnect all cables and telecommunication lines that are connected to the system.
- Retain all screws or other fasteners when removing access cover(s). Upon completion of accessing inside the product, refasten access cover with original screws or fasteners.
- Do not access the inside of the power supply. There are no serviceable parts in the power supply.
- Return to manufacturer for servicing.
- Power down the server and disconnect all power cords before adding or replacing any non hotplug component.

When replacing a hot-plug power supply, unplug the power cord to the power supply being replaced before removing the power supply from the server.

⚠ **CAUTION:** If the server has been running, any installed processor(s) and heat sink(s) may be hot. Unless you are adding or removing a hot-plug component, allow the system to cool before opening the covers. To avoid the possibility of coming into contact with hot component(s) during a hot-plug installation, be careful when removing or installing the hot-plug component(s).

⚠ **CAUTION:** To avoid injury do not contact moving fan blades. Your system is supplied with a guard over the fan, do not operate the system without the fan guard in place.

⚠ **CAUTION:** Risk of fire or explosion if the battery is replaced by an incorrect type. Please follow local regulations for disposal of used batteries.



CAUTION:

Carefully unpack and unload the rack system from the shipping package and pallet. Tilting the rack system can fall over the rack system and cause serious injury or death. Always use professional movers when unpacking, unloading and installing this rack system.

Rack Stabilizer Feet

The stabilizer feet are designed to prevent the rack from tipping over. See the documentation provided with the rack cabinet for further information on installing and anchoring the stabilizer feet.

Rack Mount Warnings

The following installation guidelines are required to maintain safety compliance when installing your system into a rack:

- The equipment rack must be anchored to an unmovable support to prevent it from tipping when a server or piece of equipment is extended from it. The equipment rack must be installed according to the rack manufacturer's instructions.
- Install equipment in the rack from the bottom up with the heaviest equipment at the bottom of the rack.
- Extend only one piece of equipment from the rack at a time.

- You are responsible for installing a main power disconnect for the entire rack unit.
- This main disconnect must be readily accessible, and it must be labeled as controlling power to the entire unit, not just to the server(s).
- To avoid risk of potential electric shock, a proper safety ground must be implemented for the rack and each piece of equipment installed in it.
- Elevated Operating Ambient- If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
- Reduced Air Flow -Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- Mechanical Loading- Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- Circuit Overloading- Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- Reliable Earthing-Reliable earthing of rack-mounted equipment should be maintained.
- Particular attention should be given to supply connections other than direct connections to the branch circuit (for example, the use of power strips).

Electrostatic Discharge

⚠ **CAUTION:** ESD can damage drives, boards, and other parts. We recommend that you perform all procedures at an ESD workstation. If one is not available, provide some ESD protection by wearing an antistatic wrist strap attached to chassis ground (any unpainted metal surface) on your server when handling parts.

Always handle boards carefully. They can be extremely sensitive to ESD. Hold boards only by their edges. After removing a board from its protective wrapper or from the server, place the board component side up on a grounded, static free surface. Use a conductive foam pad if available but not the board wrapper. Do not slide board over any surface.

安全資訊

本節提供有關如何安全使用 NML72-GB300 機架系統的相關資訊。為降低人體受傷、觸電、火災及設備損壞的風險，請在安裝或維護您的設備前，務必閱讀本文件，並遵循本指南中的所有警告與注意事項。若本文件中的資訊，與產品隨附文件或該產品官方網站所提供的資訊內容有所衝突，應以產品原始文件為優先準則。您的伺服器系統僅應由具備專業技術資格的人員進行整合與維護作業。為確保並維持現有之產品認證與核可資格，您必須遵循本指南中的準則，以及伺服器手冊內之組裝說明。請僅使用本指南所描述並規範之指定元件。使用其他未經規範之產品或元件，將使本產品的 UL 認證及其他法規批准失效，並可能導致本產品無法符合於其銷售地區適用之產品法規。

警告與注意事項

為避免人身傷害或財物損失，請在安裝本產品之前，務必閱讀、遵守並遵循以下所有安全說明與資訊。本文件中可能會使用下列安全符號，且亦可能標示於產品本體或包裝上。

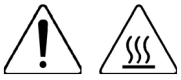


此符號表示設備內部存在危險能量迴路或觸電風險。僅限合格技術人員進行維修。

警告：為降低觸電造成傷害的風險，請勿自行開啟本設備外殼。所有維護、升級及修復作業僅能由合格技術人員執行。

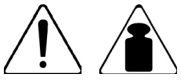


此符號表示設備內部具有觸電危險。本區域不含任何使用者或現場可維修之元件。請勿以任何理由開啟。警告：為降低觸電造成傷害的風險，請勿自行開啟本設備外殼。



此符號表示存在高溫表面或高溫元件。接觸此區域可能導致燙傷。

警告：為降低因高溫元件造成傷害的風險，請先讓表面冷卻後再觸碰。



12.92 kg

28.48 lb

此符號表示該元件重量超過單人安全搬運的建議值。

警告：為降低人身傷害或設備損壞的風險，搬運時請遵守當地職業安全衛生相關法規與人工搬運作業指南。



此符號表示本系統可能具有多個電源輸入來源。

警告：為降低觸電風險，在進行任何維護或拆裝前，請先拔除所有電源線，以完全切斷系統電源。



此符號表示設備內部含有高速運轉的風扇葉片。

警告：為避免人身傷害或造成設備損壞，若存取面板已打開，請勿將手部或身體任何部位伸入風扇區域。

預期使用情境

此設備僅限於管制區域內使用。所有產品服務與維護作業皆應由合格的服務人員執行。執行維修程序前，請詳閱所有安全資訊。

執行維修程序前，請詳閱所有安全資訊。伺服器應安裝於僅技術人員可進入的管制區域。

本設備僅適用於安裝在管制存取區域。

場地選擇

請選擇符合下列條件的安裝位置:

- **乾淨、乾燥，且無過量空氣中懸浮微粒（一般室**內灰塵除外）。
- **具備良好通風，並遠離熱源，包括陽光直射處與散熱器。**
- **遠離震動或物理衝擊來源。**
- **若位於 易受雷擊或電氣風暴影響的地區，建議將系統連接至突波保護器，並於雷雨期間拔除調變解調器（Modem）之電信線路。**
- **提供正確接地的牆面電源插座。**
- **預留足**夠空間接觸電源線，因為電源線為本產品的主要電源斷開裝置。

場地選擇

請選擇符合下列條件的安裝位置:

- **搬運或提舉設備時，請遵守當地之職業安全衛生相關法規與要求。**
- **搬運或提舉設備時，請使用機械輔助工具或其他適當的協助方式。**

電氣安全注意事項

電源與電氣警告（Power and Electrical Warnings）

⚠ **注意：帶有待機電源標示的電源按鈕（Power Button）並不能完全關閉系統的交流電源。只要系統電源線仍連接於牆面插座，待機電力即持續供電。若需完全切斷系統電源，必須將交流電源線自牆面插座拔除。 在開啟機殼或安裝 / 拆卸任何非熱插拔元件前，請務必確認所有 AC 電源線皆已拔除。**

請勿嘗試修改電源線，亦不得使用與本產品規範不符的 AC 電源線。**本系統的每一個電源供應器皆需使用獨立的** AC 電源線。**部分伺服器之電源供應器採用 中性線保險絲設計**（Neutral Pole Fusing）。**在處理採用此設計的電源供應器時，請務必小心，以避免觸電風險。本**產品的電源供應器不含任何使用者可維修之元件。

請勿打開電源供應器外殼。電源供應器內部存在危險電壓、電流及能量。若需維修，請將電源供應器送回製造商處理。更換熱插拔電源供應器時，請務必先拔除該電源供應器的電源線，再自伺服器中取出電源模組。為避免觸電危險，在開啟伺服器之前，請先關閉伺服器電源，並拔除所有電源線，同時**斷開所有電信系統、網路及數據機（modem）的連接線。

電源線警告

⚠ **注意：為避免觸電或火災危險，請依照下列要求檢查並使用本產品所適用的電源線：**

- **請勿嘗試修改電源線，亦不得使用與本產品規格不符的 AC 電源線。**
- **電源線必須能正確插入具接地功能的電源插座。**
- **電源線必須符合下列條件：**
  - **電源線的額定電氣規格必須高於產品上所標示的電流額定值。**
  - **電源線必須具有安全接地插腳（Safety Ground Pin）或接地觸點，且需與安裝地點的插座相容。**
  - **電源線為本產品切斷交流電源的主要裝置；電源插座應靠近設備，並便於隨時拔除電源線。**
  - **電源線必須插入具備正確接地（Earth Ground）的電源插座。**

系統存取警告

為避免人身傷害或財產損失，凡需存取本產品內部時，請遵循以下安全指示：

- **關閉所有連接至本系統的周邊設備。**
- **按下電源按鈕將系統關閉。**
- **拔除所有 AC 電源線，以完全切斷系統電力。**
- **移除所有連接至系統的纜線與電信線路。**
- **拆卸系統外殼時，請保留所有螺絲或固定件。完成**內部操作後，請使用原螺絲或固定件重新鎖回外殼。
- **請勿嘗試存取電源供應器**內部。電源供應器內部不含任何使用者可維修之零件。
- **電源供應器若需維修，請送回製造商處理。**
- **在新增或更換任何非熱插拔元件前，請先關閉伺服器並拔除所有電源線。**
- **更換熱插拔電源供應器時，請先拔除該電源供應器的電源線，再從伺服器中取出電源模組。**

⚠ **注意：若伺服器長時間運行，已安裝的處理器與散熱器可能處於高溫狀態。**

除非您正在新增或更換熱插拔元件，否則請先讓系統冷卻，再開啟上蓋。
在進行熱插拔操作時，請小心避免接觸到高溫元件，以免造成燙傷。

⚠ **注意：避免受傷，請勿接觸高速旋轉的風扇葉片。**

本系統配有風扇防護罩，請勿在移除防護罩的狀態下操作系統。

⚠ **注意：若以不正確的電池型號更換，可能導致火災或爆炸風險。**

請依照當地法規正確處理廢棄電池。

機架安裝警示

- 設備機架必須牢固固定於不可移動的結構上，以防在伺服器或設備抽出時造成傾倒。機架應依照機架製造商提供的安裝說明進行安裝。
- 設備應由下而上安裝於機架中，並將最重的設備置於機架的最下層。
- 一次僅能將一項設備自機架中拉出或延伸。
- 您需負責為整個機架安裝一組主要電源斷開開關（Main Power Disconnect）。該開關必須便於操作，並需明確標示為控制整個機架之電源，而非僅控制單一伺服器。
- 為避免觸電風險，機架以及所有安裝於機架中的設備皆需確實實施安全接地。
- 高環境溫度警告：**若設備安裝於封閉式或多設備機架中，機架內的操作環境溫度可能高於室內環境溫度。因此，應確保設備所處之環境具備與製造商所標示之最高環境操作溫度（Tma）相容的條件。
- 降低氣流風險：設備應以不影響其安全運作所需氣流的方式安裝於機架中。
- 機械載荷平衡：設備安裝方式必須避免因機械負載分布不均而產生危險狀況。
- 電路過載保護：在連接設備至供電電路時，應考量可能發生的電路過載情形，以及其對過電流保護與供電線路的影響。處理此議題時，應適當參考設備銘牌上的額定規格。
- 接地可靠性：必須確保機架內所有設備之接地系統維持穩定可靠。
- 特別注意非直接連接至分支電路的供電方式（例：使用電源延長線或電源排插時需特別留意）。

靜電放電

⚠ **注意：靜電放電（ESD）可能會損壞硬碟、電路板及其他元件。**

建議您在 ESD 防護工作站 中執行所有相關作業。

若無可用的 ESD 工作站，請務必採取基本靜電防護措施——例如在處理零組件時，配戴 防靜電手環，並將其接地至伺服器機殼上的任一未上漆金屬部分。

ESD防護作業指南: 在操作電路板時請務必小心，它們對靜電非常敏感。拿取電路板時，僅能握住電路板的邊緣部位。將電路板從保護包裝或伺服器中取出後，請將其 元件面朝上 放置在接地且無靜電的表面上。若有導電泡棉（conductive foam）可使用，請放置於其上，但 切勿使用原保護包裝作為放置材料。請勿將電路板在任何表面上滑動，以避免因摩擦產生靜電。

BSMI 甲類警語

警告: 為避免電磁干擾，本產品不應安裝或使用於住宅環境

限用物質含有情況標示聲明書

Declaration of the Presence Condition of the Restricted Substances Marking

證書號碼／受理編號：(No.)

Certificate No／Application No.

商品標籤及商品檢驗標識：(Picture)

Product Label and Commodity Inspection Mark.

樣張及其標示位置 ：(Description and Picture)

Sample and its location

設備名稱: 伺服器　　型號（型式）：NML72-GB300

Equipment name :　　Type designation (Type):

單元Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr^{+6})	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
機箱/擋板 Chassis/Enclosure	-	○	○	○	○	○
SSD 儲存裝置SSD storage device	-	○	○	○	○	○
電路板組件 PCBA	-	○	○	○	○	○
機構零件 Metallic Accessories	○	○	○	○	○	○
散熱片 Heatsink	○	○	○	○	○	○
連接線	-	○	○	○	○	○

Cable						
配件 Accessories	-	○	○	○	○	○

備考1.〝超出0.1 wt %〞及〝超出0.01 wt %〞係指限用物質之百分比含量超出百分比含量基準值。

Note 1：“Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2.〝○〞係指該項限用物質之百分比含量未超出百分比含量基準值。

Note 2：“○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3.〝-〞係指該項限用物質為排除項目。

Note 3：The “–” indicates that the restricted substance corresponds to the exemption.

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茲切結保證所提供之商品限用物質含有情況標示內容係經執行測試作業或採適當之品質管理措施，並備置前述相關文件，確認正確無誤後提供貴局。並同意配合貴局執行後市場管理作業所需，依商品檢驗法第49**條之規定，於限期28個工作天**內提供相關證明文件以供審查。

I hereby ensure that “the presence conditions of the restricted substance” provided above have been proved by testing or appropriate quality control measures, and make sure the relevant documents provided are correct and ready. Also, I agree to cooperate with BSMI, as the Article 49 of the Commodity Inspection Act stipulates, to provide the relevant documents, if needed, for verification within 28 working days when BSMI carries out the market surveillance activities.

此致 to

經濟部標準檢驗局 The Bureau of Standards, Metrology and Inspection

申請人:
Applicant

負責人: _____ (簽章)
Person in charge (Signature)

中 華 民 國 年 月 日
DATE (year) (month) (day)

商品標籤

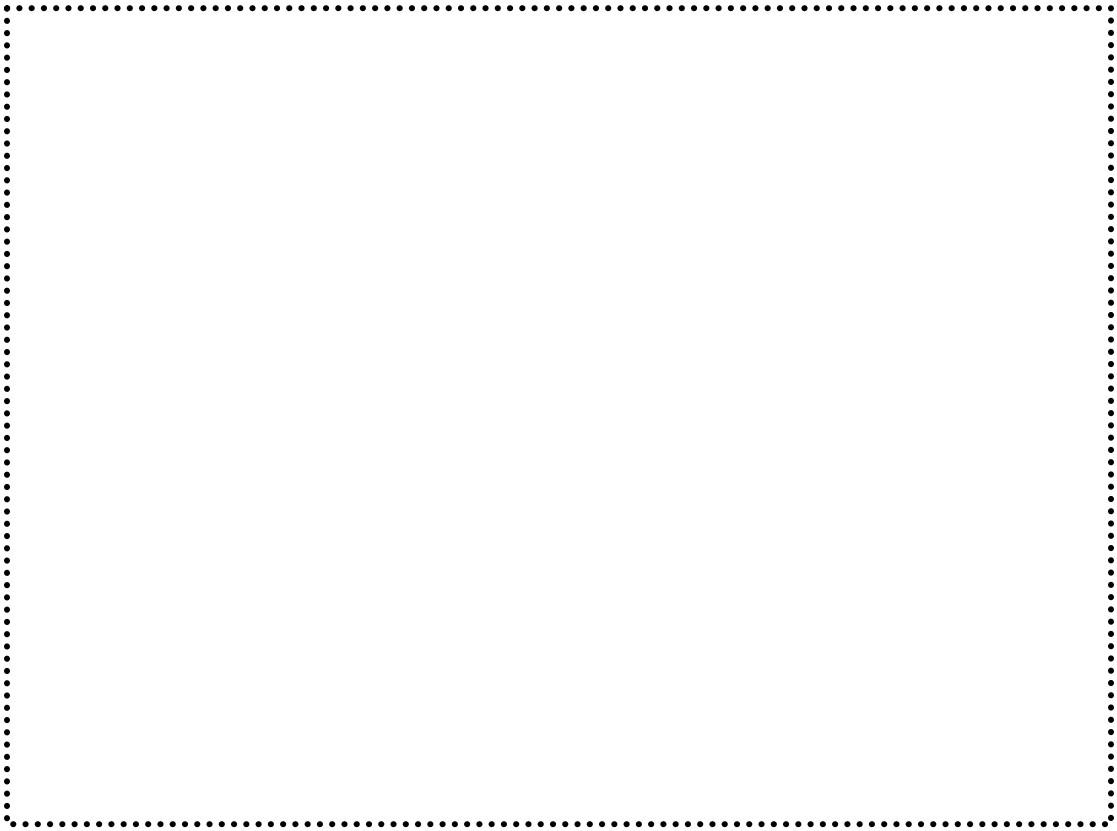
Product Label

視各廠牌商品而定

Depends on the merchandise case

商品檢驗標識

Commodity Inspection Mark



樣張標示位置

The location of sample of the marking

圖示1

Picture 1

圖示2

Picture 2