# Intelligent Fusion Server

Quick Start Guide

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# Chapter 1 Introduction

## 1.1 Front Panel Overview

The front panel of the server (hereinafter referred to as “device”) is shown below. See the table below for details of each part.

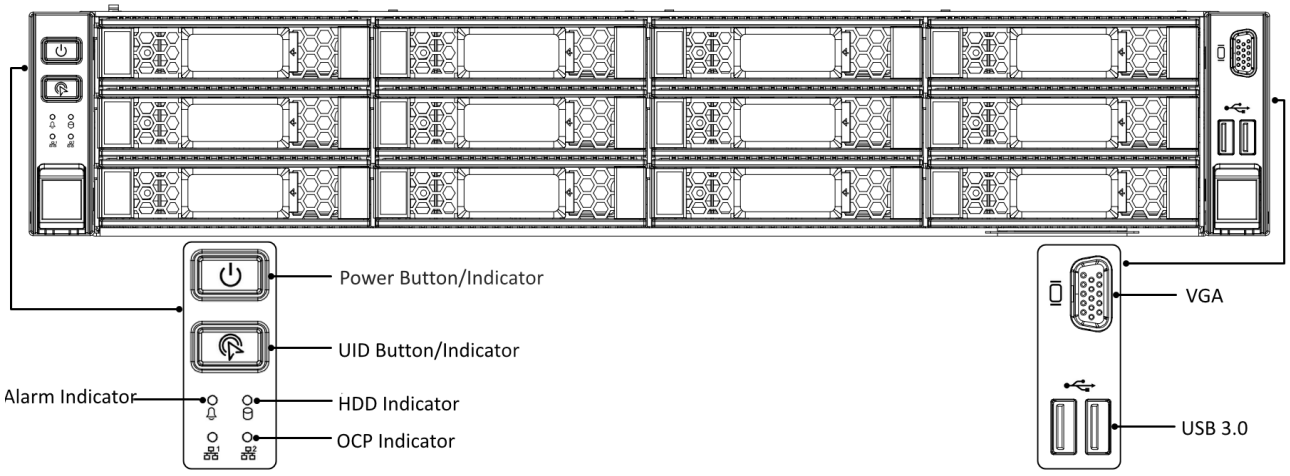



**Figure 1-1 Front Panel Overview**

**Table 1-1 Front Panel Description**

| Item | Description |
|---|---|
| Power Button/Indicator | • When the device is off, press it to turn on the device.<br>• When the device is on, hold it for 4 seconds to force shutdown.<br>• When the device is in standby status, the indicator is solid red.<br>• When the device is powered on, the indicator is solid blue. |
| UID Button/Indicator | The UID indicator is solid blue when turned on for easy location.<br>• Press the button to turn the UID indicator on or off.<br>• Hold it for 4 seconds to reset the BMC. |
| Alarm Indicator | • Solid red: Device abnormal.<br>• Off: Powered off or device normal. |
| HDD Indicator | • Flashing green: Data transmission on onboard M.2 is in progress.<br>• Off: Powered off, onboard M.2 not installed, or no data transmission on onboard M.2. |
| OCP Indicator | • Solid green: OCP inserted.<br>• Off: Powered off or OCP not inserted. |
| VGA | VGA interface. |
| USB 3.0 | 2 USB 3.0 interfaces. |

## 1.2 Rear Panel Overview

The rear panel of the device is shown below. See the table below for details of each part.

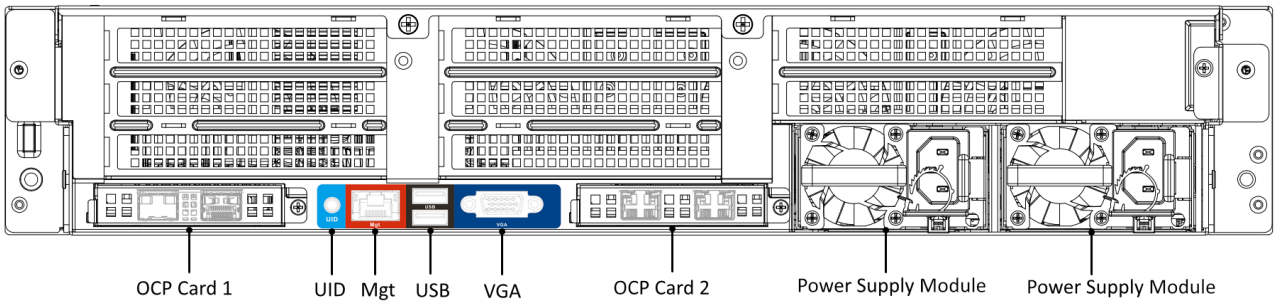



**Figure 1-2 Rear Panel Overview**

**Table 1-2 Rear Panel Description**

| Item | Description |
|---|---|
| OCP Card 1 | 2 10-Gigabit optical interfaces. |
| UID | UID indicator. |
| Mgt | BMC management network interface. |
| USB | 2 USB 3.0 interfaces. |
| VGA | VGA interface. |
| OCP Card 2 | 2 Gigabit Ethernet ports. |
| Power Supply Module | 2 power supply modules (1+1 redundancy), hot swappable. |

# Chapter 2 Installation

**Caution**

As a Class A product, the server may cause radio interference. You are recommended to take practical measures for the interference.

## 2.1 Before Installation

### 2.1.1 Safety Precautions

**Working Temperature**

If you install the device in an independent or multiple-unit cabinet, the working temperature of the cabinet may exceed the room temperature. Therefore, the installation environment and the maximum compatible rated ambient temperature (TMRA) of the device should be considered.

**Heat Dissipation Airflow**

Install the device in a rack to ensure that the required heat dissipation airflow is not reduced.

**Device Load**

Install the device in a rack to prevent hazardous conditions caused by load imbalance.

**Circuit Overload**

During installation, verify all power circuits and connections to ensure the load current does not exceed the rated value, thus preventing circuit overload from triggering overcurrent protection.

**Grounding Protection**

The device cabinet must maintain grounding at all times, with special attention to directly connected branch circuits other than the power supply.

**Installation Position**

- To ensure adequate airflow and convenient maintenance, leave sufficient space around the rack.
- Install the device in a dedicated device room, service cabinet, etc.
- This product is not suitable for use in office workplaces.

### 2.1.2 Preparation

- Check the delivered package. If any object is damaged or missing, please contact the dealer.
- Ensure the server is installed in a well-ventilated, dust-free environment.
- Keep away from heat source, electric noise, and electromagnetic field. Meanwhile, it should

be close to a grounded power outlet.

- Keep the device in a dry environment, away from rain, moisture, or mineral-containing liquids to prevent circuit corrosion.
- The product is a precision device, take anti-static measures during installation and use to prevent damage from static electricity.
- Do not share the same power outlet with other devices, and it is recommended to connect to an uninterruptible power supply (UPS). Avoid using extension cords if possible.
- The USB ports of the device can only be used for connecting mice, keyboards, or USB flash drives. Charging or connecting other devices is not allowed.

# 2.2 Install/Remove Power Supply Module

## 2.2.1 Install Power Supply Module

Follow the steps below to install the power supply module.

**Steps**

1. Align the power supply module with the module rail.
2. Insert the rear end of the power supply module into the node slot.

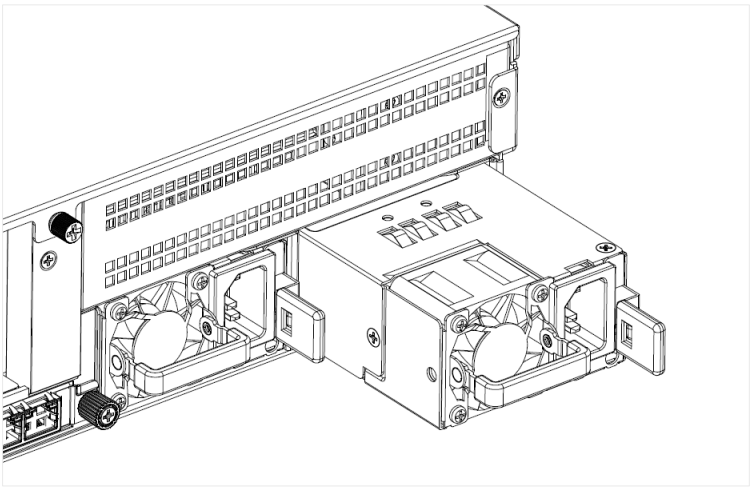


**Figure 2-1 Insert Power Supply Module**

3. Push the power supply module until the front end of the module is fully inserted.

## 2.2.2 Remove Power Supply Module

Follow the steps below to remove the power supply module.

**Steps**

1. Push the power module latch toward the left side of the device, and pull the handle outward.
2. Pull the power supply module out of the device until the rear end is completely removed.

# 2.3 Install RISER Module

## 2.3.1 Mount RISER 1

**Steps**

1. Insert the H12 card and small card into the corresponding slots of the module, and fix them with three M3 screws.

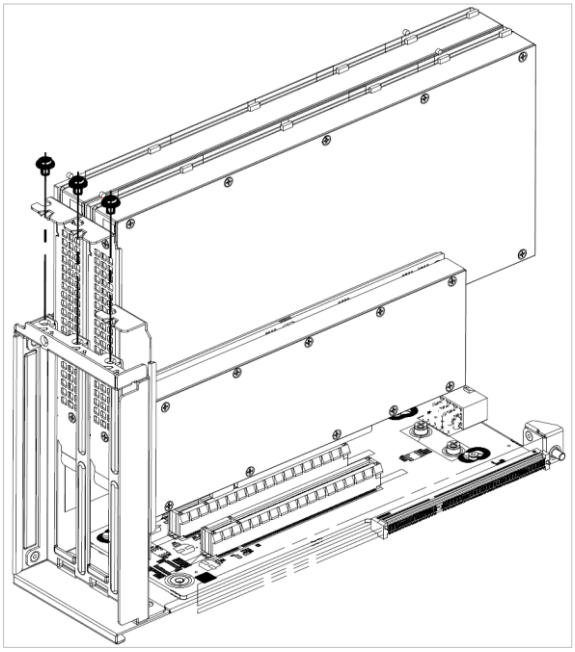


**Figure 2-2 Fix H12 Card and Small Card**

2. Place the X201 H12 card fixing bracket-1RISER onto the module, and secure it with four M3 screws.

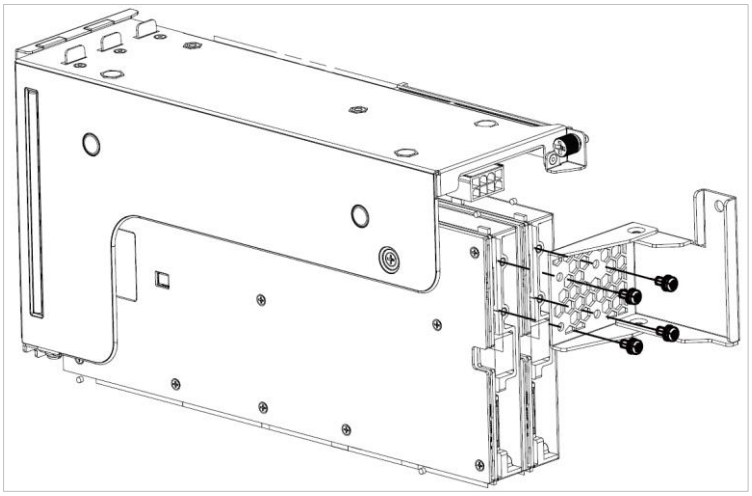


**Figure 2-3 Install RISER1 Bracket**

## 2.3.2 Mount RISER 2

**Steps**

1. Insert the H12 card and small card into the corresponding slots of the module, and fix them with three M3 screws.

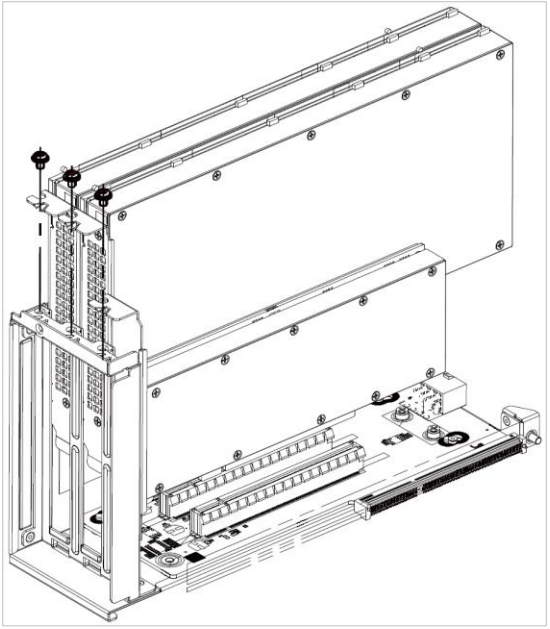


**Figure 2-4 Fix H12 Card and Small Card**

2. Place the X201 H12 card fixing bracket-2RISER onto the module, and secure it with four M3 screws.

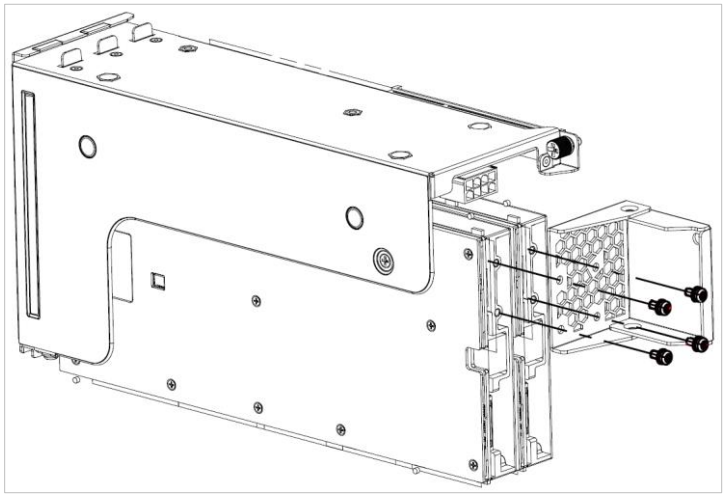


**Figure 2-5 Install RISER2 Bracket**

## 2.3.3 Install RISER Modules into Device

**Steps**

1. Attach the M3 studs onto the device mainboard.
2. Insert RISER modules 1 and 2 into their corresponding positions on the device.
3. Secure the two modules to the device using captive screws.
4. Fix the GPU brackets of RISER modules 1 and 2 onto the M3 studs using M3 screws.

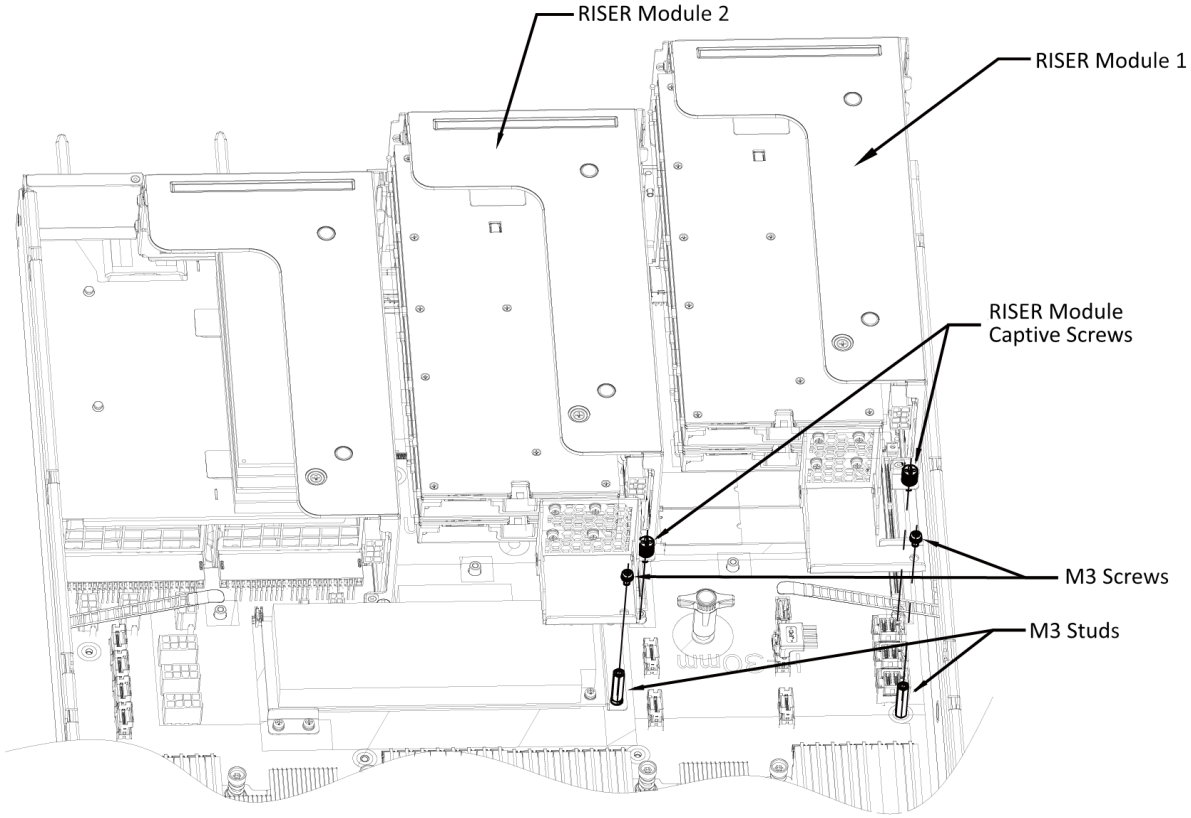



**Figure 2-6 Install GPU Bracket**

5. Connect one end of a power cable to any power interface on the mainboard, and the other end to the two power interfaces on RISER module 1. Repeat this step for RISER module 2.

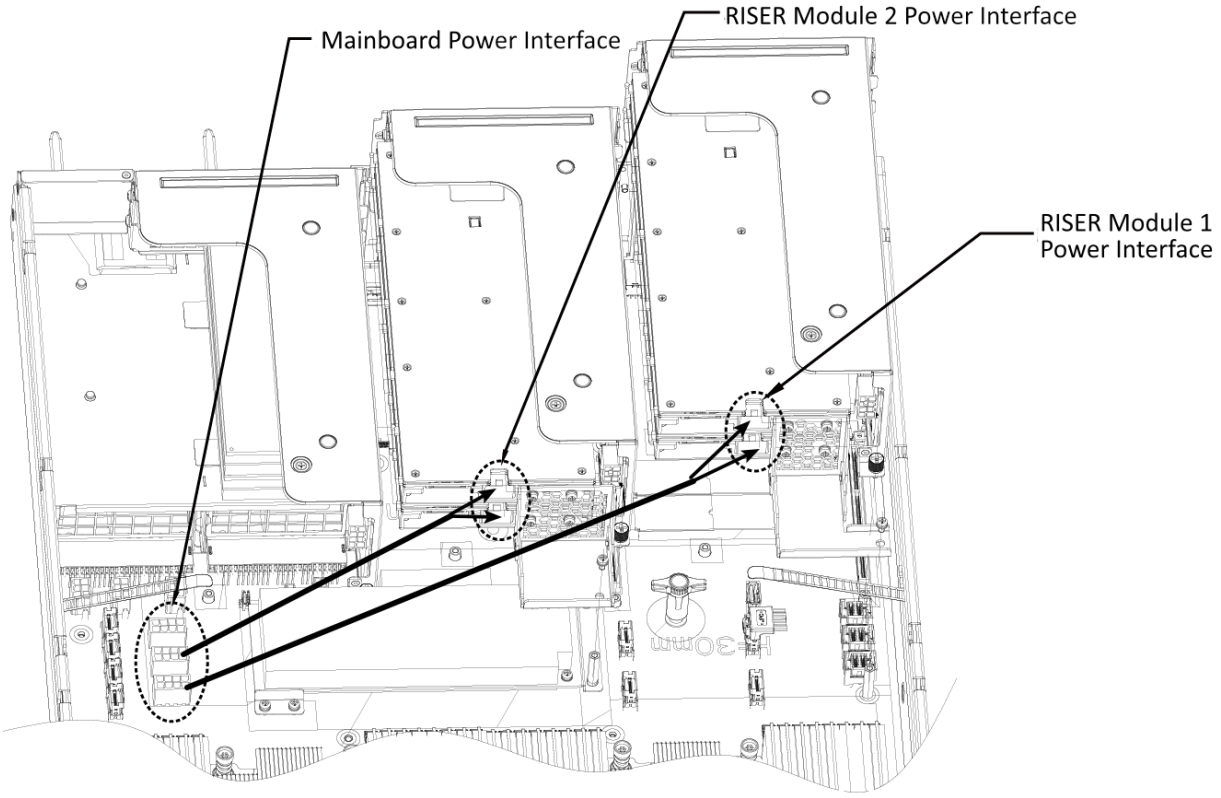



**Figure 2-7 Connect Power Cable**

6. Fix RISER modules 1 and 2 to the rear panel of the device using M3 screws.

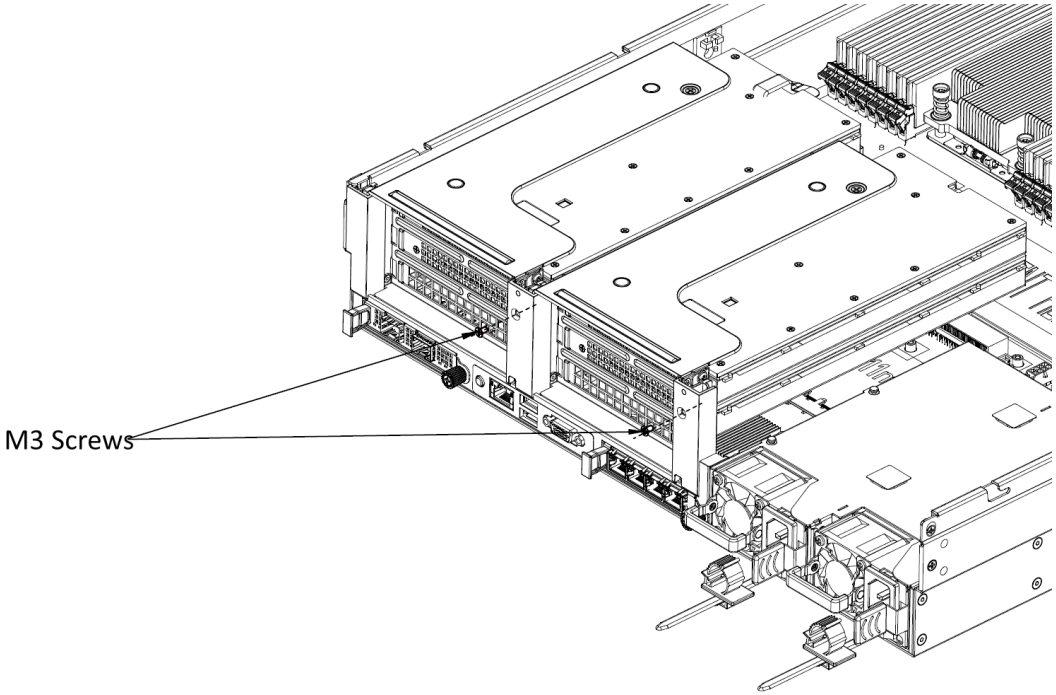



**Figure 2-8 Fix RISER Modules**

# 2.4 Install/Remove Device

## 2.4.1 Install Device

Follow the steps below to install the device into a rack.

**Steps**

1. Install the rear end of the ball bearing slide rail.
   1) Insert the positioning pins at the rear end of the rail into the vertical pole holes on the rear end of the rack.

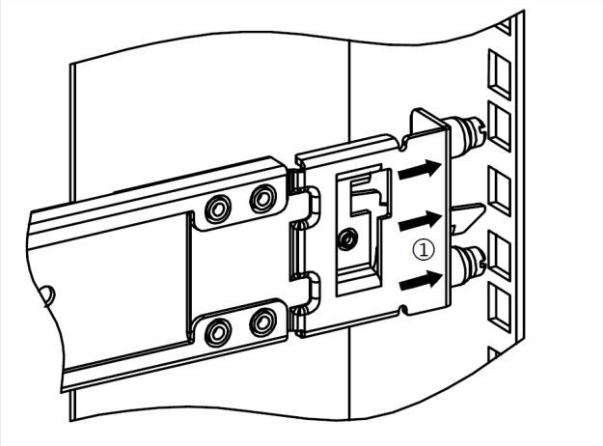



**Figure 2-9 Insert Positioning Pins**

   2) After inserting, the lock hook will automatically lock the vertical pole.

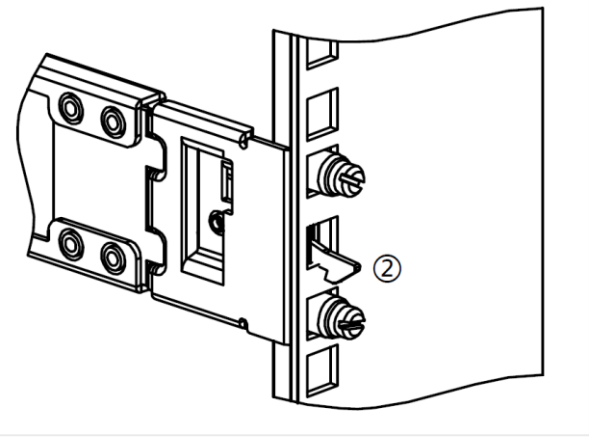



**Figure 2-10 Lock Vertical Pole**

2. Install the front end of the ball bearing slide rail.
   1) Rotate to unlock the front bracket lock hook.

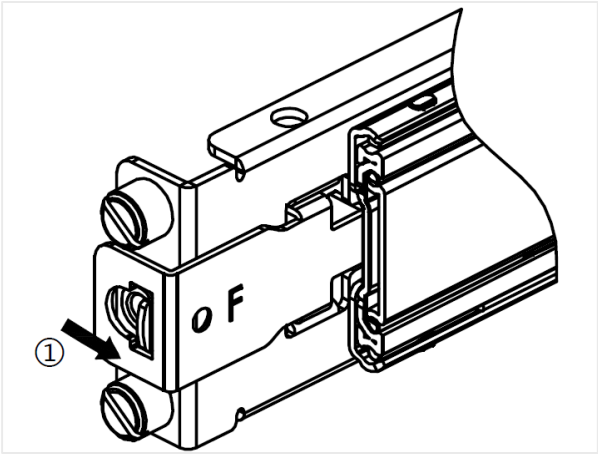



**Figure 2-11 Rotate Bracket Lock Hook**

2) Align the front end of the rail with the vertical pole holes, and then push it forward to secure it into the holes.

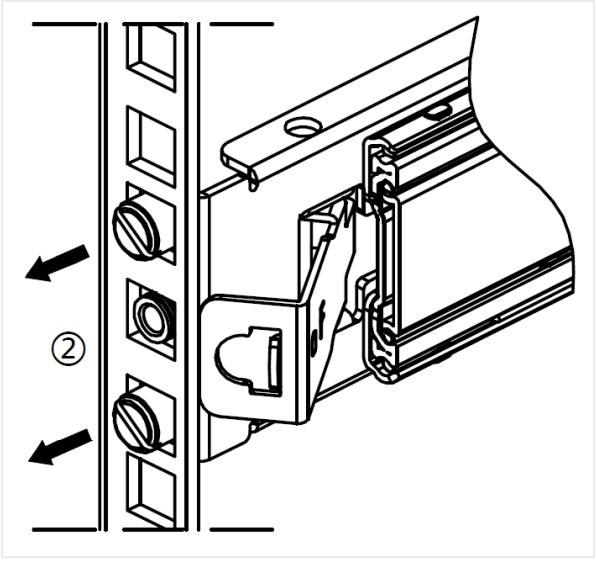



**Figure 2-12 Attach Rail Front End**

3) Rotate the bracket lock hook to lock the vertical pole.

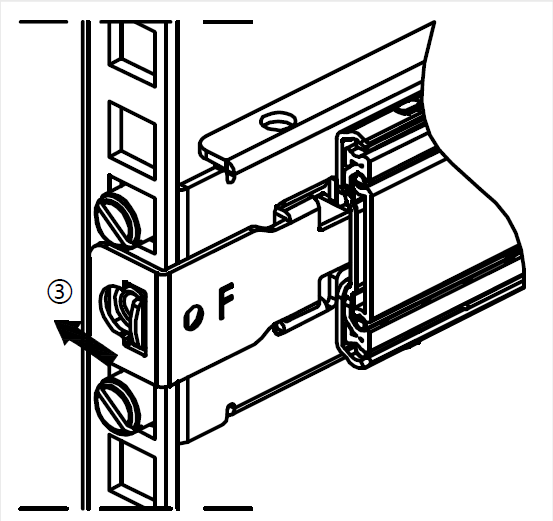



**Figure 2-13 Replace Bracket Lock Hook**

3. Install the device.
   1) Align the screws at the rear of the device with the corresponding J-shaped holes on the inner rail, and then insert them into the holes.
   2) Rotate the device to align other screws with their holes, and fix the device properly.

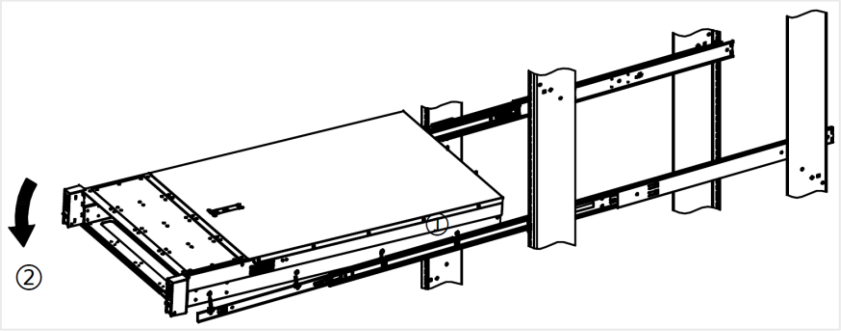



**Figure 2-14 Fix Device**

   3) Lift the lever upward, and then push the device into the rail.

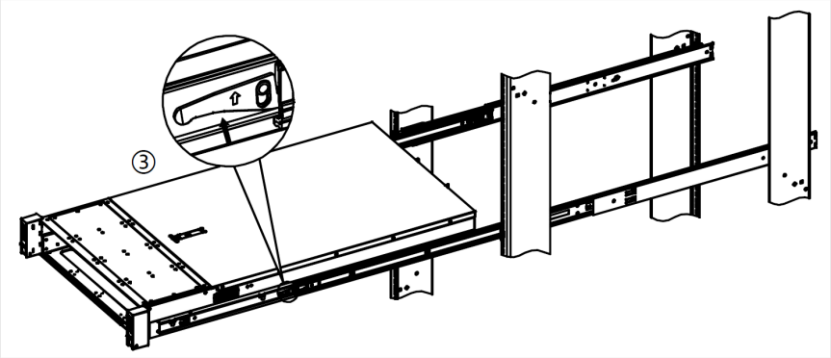



**Figure 2-15 Push Device into Rail**

**Note**

Please replace the support studs in the attachment as needed.

## 2.4.2 Remove Device

Follow the steps below to remove the device from the rack.

**Steps**

1. Remove the device.
   1) Press the left and right device lock spring protrusions simultaneously to remove the front screw.
   2) Rotate the device to detach other three screws at the front of the device from the rail holes.

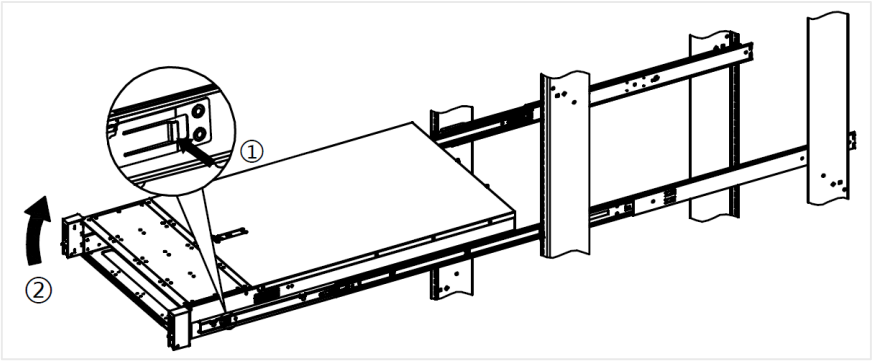



**Figure 2-16 Remove Device Screws**

   3) Lift the device upward to detach it from the last mounting hole.

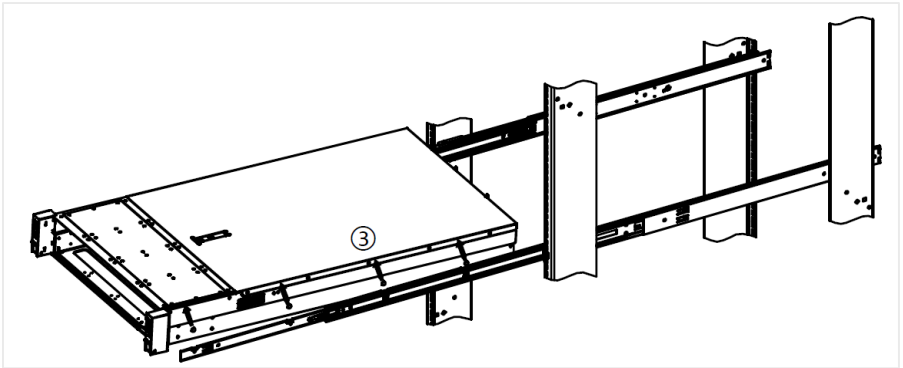



**Figure 2-17 Remove Device**

   4) Lift the lever, and push the inner rail to replace the ball bearing slide rail.

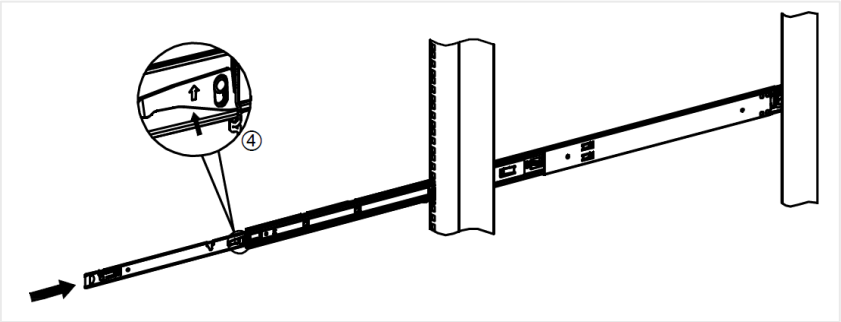



**Figure 2-18 Replace Ball Bearing Slide Rail**

2. Unlock the front end of the ball bearing slide rail.
   1) Rotate to unlock the front bracket lock hook.

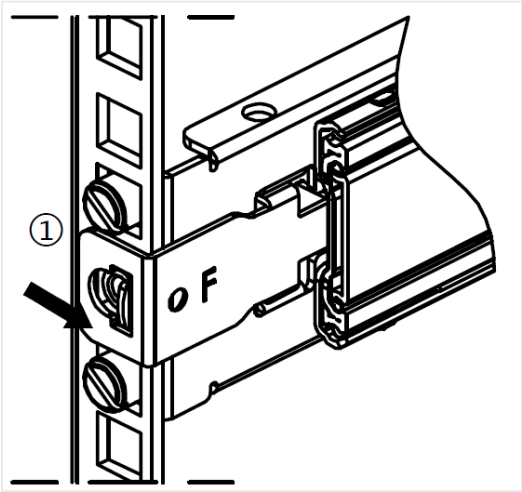



**Figure 2-19 Rotate Bracket Lock Hook**

   2) Push the front end of the rail backward to remove it from the vertical pole.

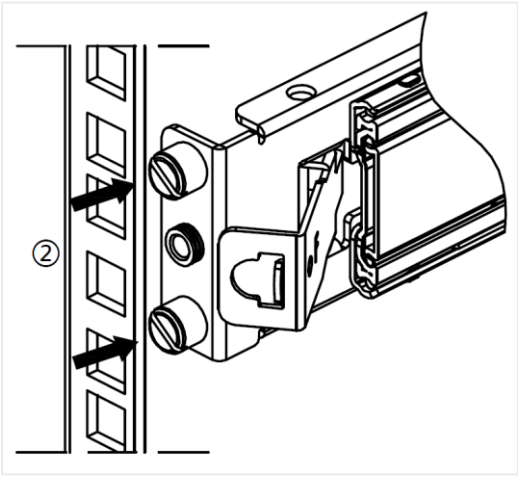



**Figure 2-20 Remove Rail from Vertical Pole**

   3) Replace the bracket lock hook to the original position.

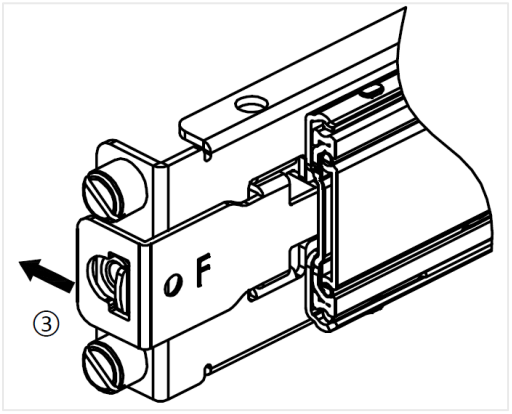



**Figure 2-21 Replace Bracket Lock Hook**

3. Unlock the rear end of the ball bearing slide rail.
   1) Lift the lock hook at the rear end of the rail upward to unlock the rear bracket.

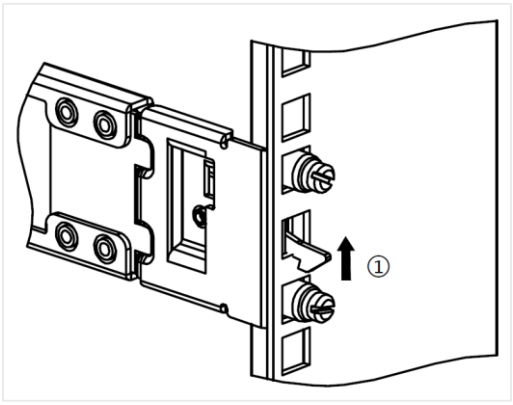



**Figure 2-22 Unlock Rear Bracket**

   2) Push the rear bracket of the slide rail forward to detach it from the pole.

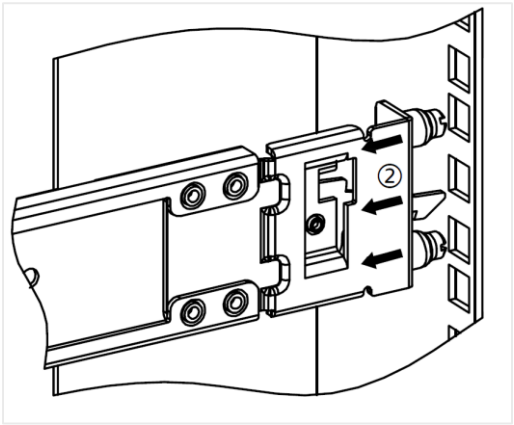



**Figure 2-23 Remove Rear Bracket from Pole**


See Far, Go Further