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RackChoice 2U Rackmount Server Chassis

RackChoice 2U Rackmount Server Chassis Instruction Manual

Model: 2U Rackmount Server Chassis

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your RackChoice 2U Rackmount Server Chassis. This chassis is designed to support EATX, ATX, and Micro ATX motherboards, offering a short depth of 15 inches suitable for various server environments. It features support for both horizontal and low-profile add-on cards, providing flexibility for your server build.



Image: Front view of the RackChoice 2U Rackmount Server Chassis, showcasing its compact design and rackmount ears.

Product Features

- **Motherboard Compatibility:** Supports EATX (12"x13"), ATX (12"x9.6"), and Micro ATX motherboards.
- **Material:** Front bezel and handles constructed from aluminum; main chassis from zinc-coated steel for durability.
- **Front Panel Connectivity:** Two front access USB 3.0 ports, backward compatible with USB 2.0.
- **Drive Bays:** Includes 2x 3.5" internal drive bays and an additional 2x 3.5" drive bays (also compatible with 2.5" drives).
- **Expansion Slots:** Unique rear panel design supports both riser cards and low-profile expansion slots, which are swappable for configuration flexibility.
- **Power Supply Unit (PSU) Type:** Designed for a 1U single power supply.
- **Cooling System:** Features a hidden grille on the front panel for air intake, equipped with three 8cm fans for efficient cooling.
- **Chassis Type:** Standard 2U rackmount form factor.

- **EATX Motherboard Note:** When installing an EATX motherboard, the two front HDD cages must be removed.

SPECIFICATIONS

Specification	Value
Brand	RackChoice
Series	RackChoice 2U
Item Weight	14.3 pounds (6.49 kg)
Product Dimensions (LxWxH)	15 x 19 x 3.5 inches (38.1 x 48.26 x 8.89 cm)
Color	Black
Material	Alloy Steel (Chassis), Aluminum (Front Bezel/Handles)
Motherboard Compatibility	EATX (12"x13"), ATX (12"x9.6"), Micro ATX
USB 3.0 Ports	2 (Front Access)
Drive Bays	4 x 3.5" (2.5" compatible)
PSU Type	1U Single Power Supply
Cooling Method	Air (3 x 8cm front fans)

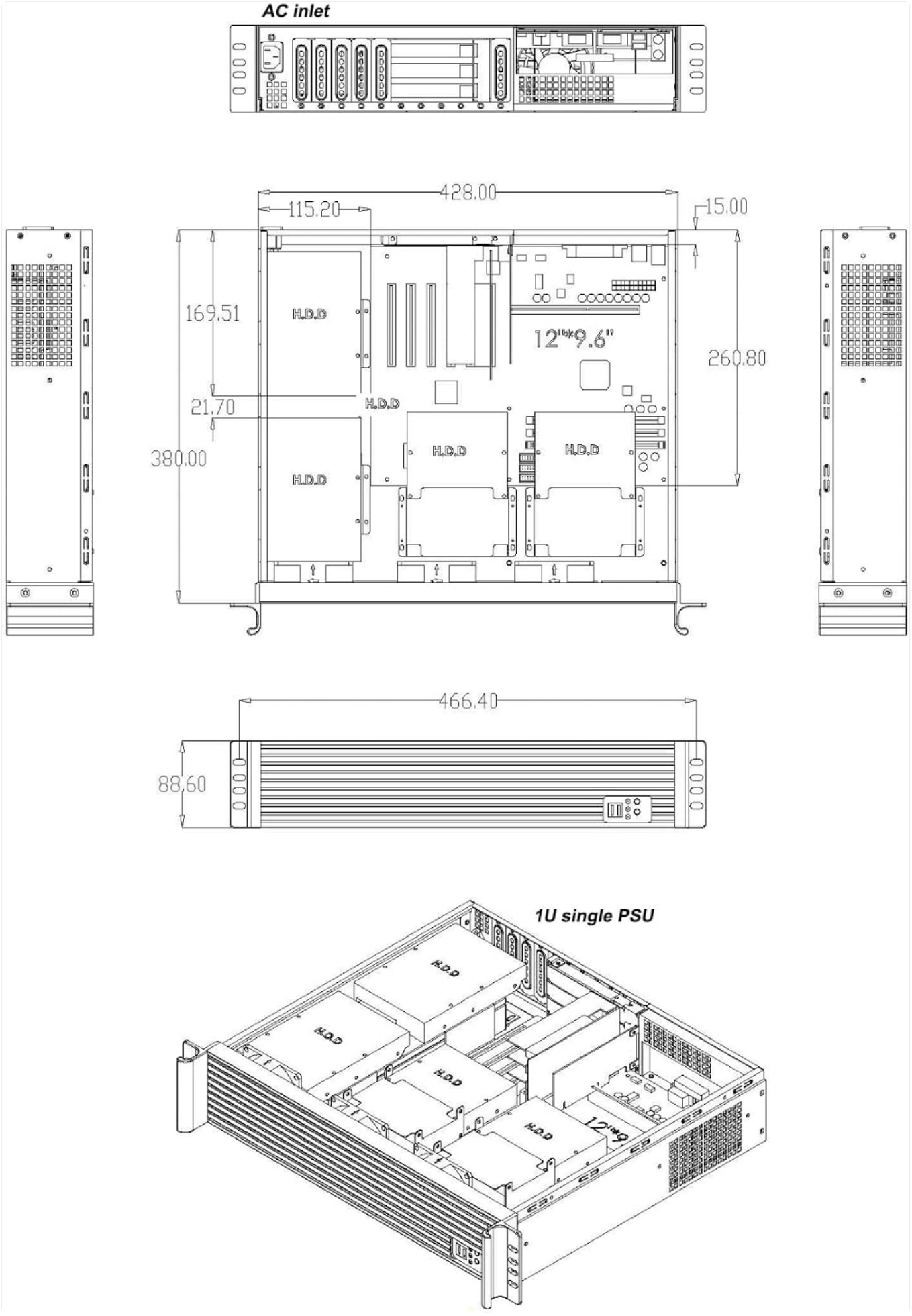


Image: Technical drawing illustrating the dimensions and internal layout of the chassis.

Setup Guide

1. Preparing the Chassis

Before beginning installation, ensure you have a clean, static-free workspace. Remove the top cover of the chassis by unscrewing the retaining screws, typically located on the rear or sides.

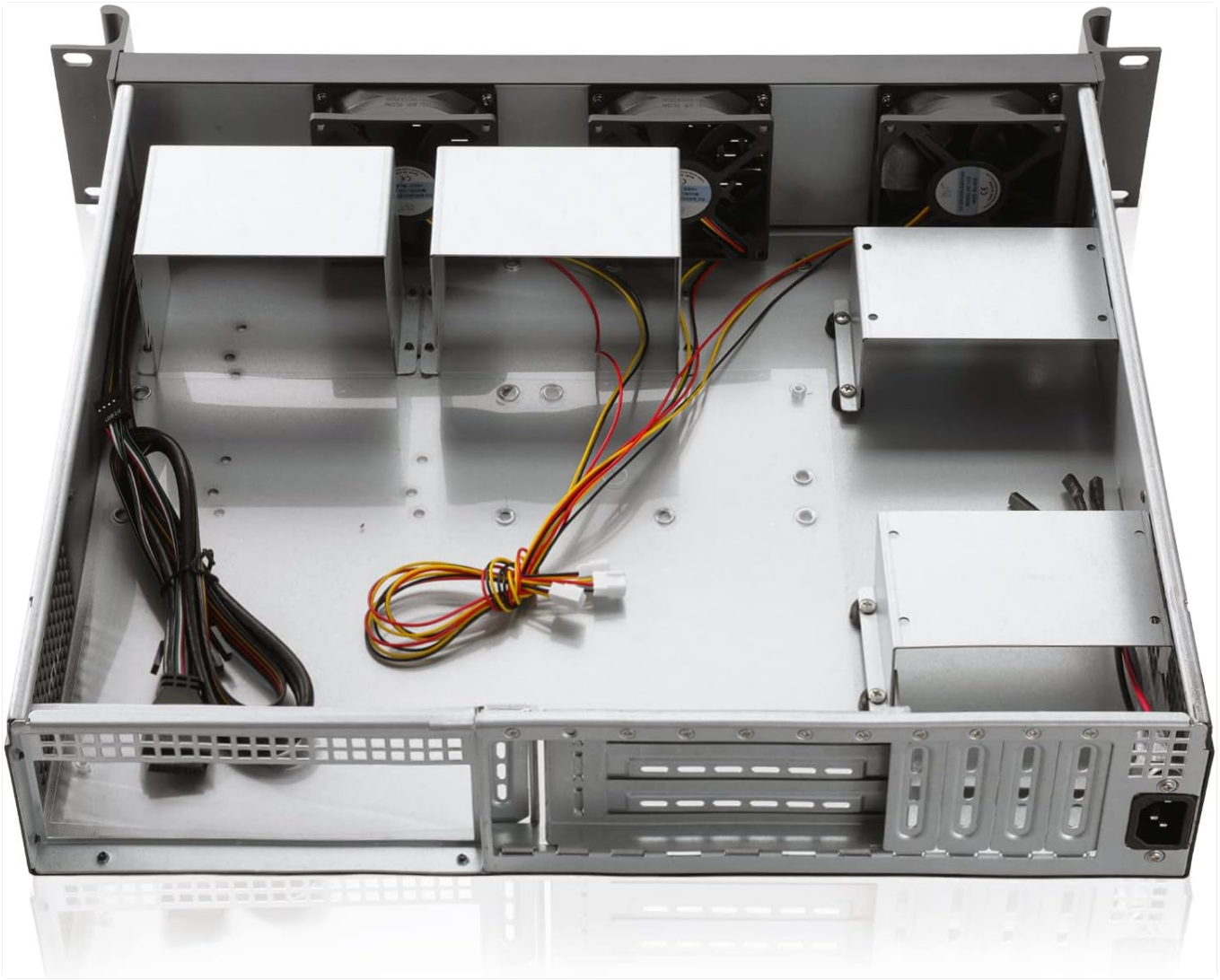


Image: Internal view of the chassis, showing the layout for components and pre-installed fans.

2. Motherboard Installation

1. Identify the correct standoff locations for your EATX, ATX, or Micro ATX motherboard. Install any necessary standoffs that are not pre-installed.
2. Carefully place the motherboard into the chassis, aligning it with the standoffs and the rear I/O shield opening.
3. Secure the motherboard with screws. **Note:** If installing an EATX motherboard, the two front HDD cages must be removed to accommodate its larger size.

3. Drive Installation

The chassis provides 4 x 3.5" drive bays, which are also compatible with 2.5" drives using appropriate adapters (not included). Mount your hard drives or SSDs into the designated drive cages and secure them with screws. Connect the necessary SATA data and power cables.

4. Power Supply Installation

This chassis requires a 1U single power supply unit (PSU). Install the PSU into its designated bay, typically at the rear of the chassis. Secure it with screws. Connect the main ATX power connector, CPU power connector, and any other necessary power cables to your motherboard and components.



Image: Internal view highlighting the power supply installation area and the importance of correct wire connection order.

5. Riser Card and Low-Profile Card Installation

The rear panel features a unique design allowing for swappable riser card and low-profile expansion slots. Determine whether your expansion cards require a riser card or can be directly installed into low-profile slots. Install the appropriate brackets and secure your expansion cards.

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Video: Demonstration of the swappable riser card and low-profile slots on the rear panel of the RackChoice 2U server chassis.

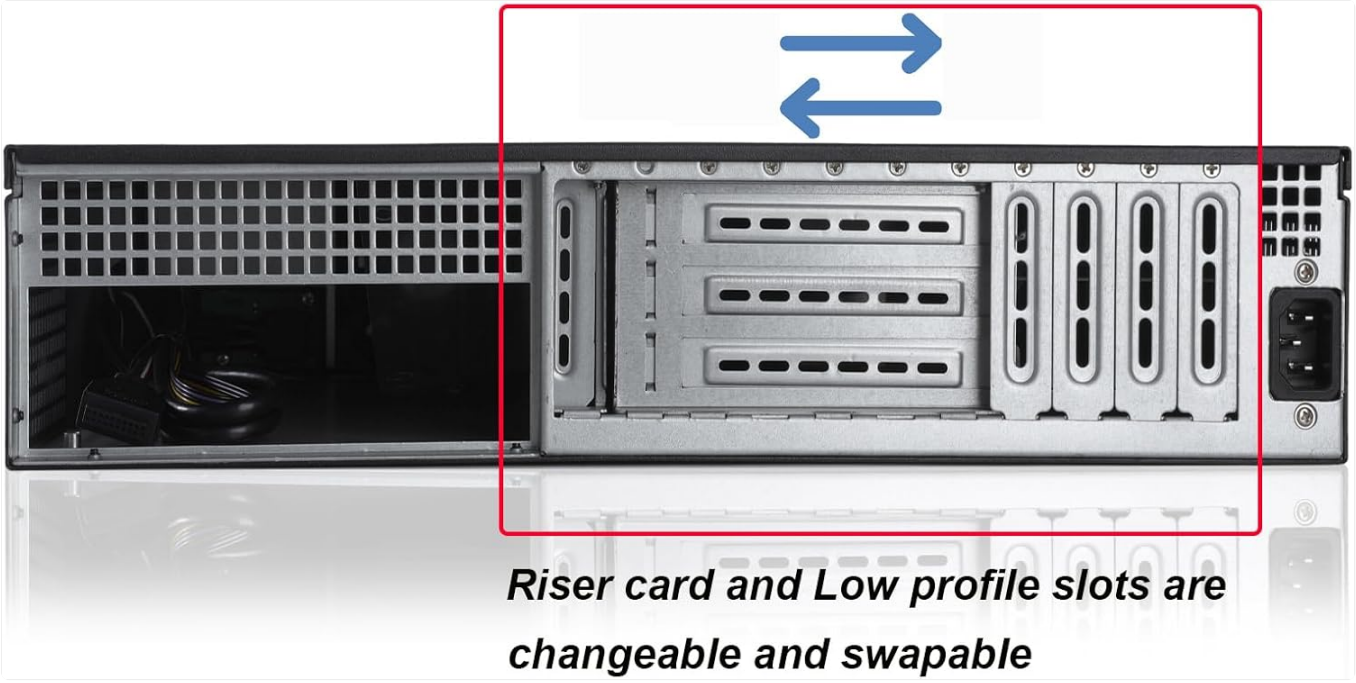


Image: Rear view of the chassis, clearly showing the configurable sections for riser cards and low-profile expansion cards.

6. Front Panel Connections

Connect the front panel USB 3.0 cables, power switch, reset switch, and LED indicators to the corresponding headers on your motherboard. Refer to your motherboard manual for specific header locations.

Operating Instructions

Once all components are securely installed and connected, replace the top cover of the chassis and secure it with screws. Connect the power cable to the 1U PSU and plug it into a suitable power outlet. Press the power button on the front panel to start your server. Ensure adequate airflow around the chassis for optimal cooling.

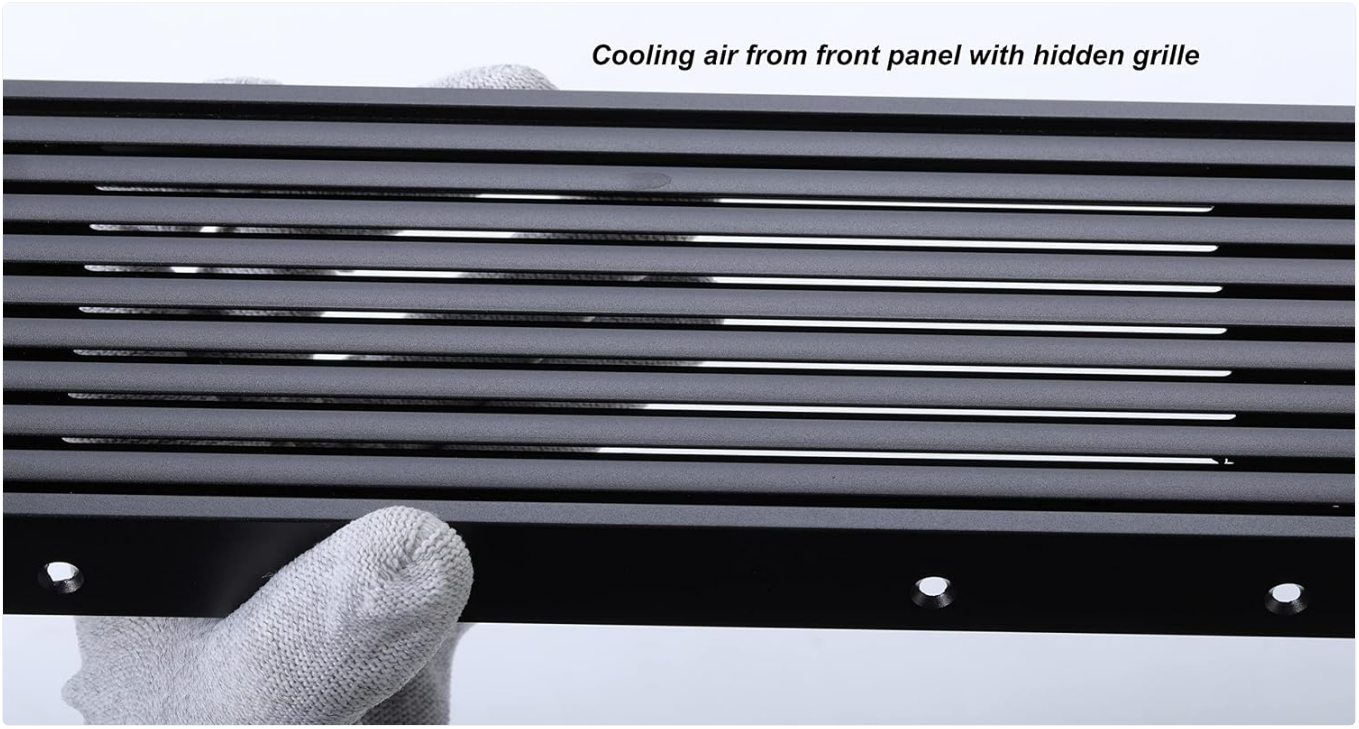


Image: Close-up of the front panel, showing the hidden grille designed for air intake to cool internal components.

Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your server chassis.

- **Dust Removal:** Periodically open the chassis and use compressed air to remove dust buildup from fans, heatsinks, and other components. Dust can impede airflow and lead to overheating.
- **Fan Inspection:** Check the 8cm front fans for any obstructions or signs of wear. Ensure they are spinning freely and quietly. Replace any noisy or malfunctioning fans.
- **Cable Management:** Ensure internal cables are neatly routed and secured to prevent interference with airflow or moving parts.
- **External Cleaning:** Wipe the exterior of the chassis with a soft, damp cloth. Avoid using harsh chemicals.

Troubleshooting

If you encounter issues with your RackChoice 2U Rackmount Server Chassis, consider the following common troubleshooting steps:

- **No Power:**
  - Verify the power cable is securely connected to both the PSU and the wall outlet.
  - Ensure the PSU switch (if present) is in the 'ON' position.
  - Check all internal power connections, especially the main ATX and CPU power cables to the motherboard.
- **Overheating:**

- Ensure the chassis fans are operating correctly and are free from dust.
- Verify that the server environment has adequate ventilation and is not in an enclosed space.
- Check CPU and GPU heatsinks for dust buildup.

- **Expansion Card Issues:**
  - Ensure expansion cards are fully seated in their slots (either direct low-profile or via a riser card).
  - Verify that any necessary power connectors are attached to the expansion cards.
- **Front USB Ports Not Working:**
  - Check that the front panel USB 3.0 cable is correctly connected to the motherboard's USB 3.0 header.
  - Ensure USB drivers are installed and up to date in your operating system.

Warranty and Support

RackChoice products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official RackChoice website. For technical support or inquiries, please contact RackChoice customer service through the contact information provided on their website or your retailer's support channels.
Please retain your proof of purchase for warranty claims.

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