Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

rackchoice N4058

RackChoice 4U Rackmount Server Chassis User Manual

Model: N4058

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your RackChoice 4U Rackmount Server Chassis. Designed for robust server environments, this chassis offers extensive drive bay options and efficient cooling solutions.

Key Features:

- 4U rackmount design with a depth of 450mm (excluding handles).
- Versatile drive bay configuration: 3x 5.25" external bays, 7x 3.5" internal bays, and 3x 2.5" internal bays.
- Supports ATX and microATX motherboards (up to 12" x 9.6").
- Durable construction: Aluminum front bezel with security keylock and handle, zinc-coated steel main chassis.
- Efficient cooling with one pre-installed 12cm fan and options for two 6cm fans.
- Front access with 2x USB 3.0 ports (with USB 2.0 adapter).
- Integrated dust filter for easy maintenance.
- Compatible with standard ATX PS-2 power supplies.



Figure 1: RackChoice 4U Rackmount Server Chassis with keys, mounting brackets, and screws.

Setup and Installation

1. Preparing the Chassis

Before beginning installation, ensure you have all necessary components, including your motherboard, power supply, storage drives, and expansion cards. Open the front panel doors and unlock the chassis cover using the provided keys.



Figure 2: Front panel of the chassis with access doors open, revealing drive bays and front I/O.

2. Motherboard Installation

The chassis supports ATX and microATX motherboards up to 12" x 9.6". Carefully align your motherboard with the standoffs inside the chassis. Secure the motherboard using the provided screws. Ensure all necessary cables (power, data, front panel connectors) are routed appropriately.

3. Power Supply Installation

Install a standard ATX PS-2 power supply into the designated bay at the rear of the chassis. Secure it with screws. Connect the main power cables to the motherboard and other components.

4. Drive Installation

The chassis provides ample space for various drive types:

- **External 5.25" Bays (x3):** For optical drives or hot-swap bays.
- **Internal 3.5" Bays (x7):** For hard disk drives.
- **Internal 2.5" Bays (x3):** For solid-state drives (SSDs).

Refer to Figure 3 for the location of drive bays. Install drives into their respective cages and secure them. Connect data and power cables to each drive.

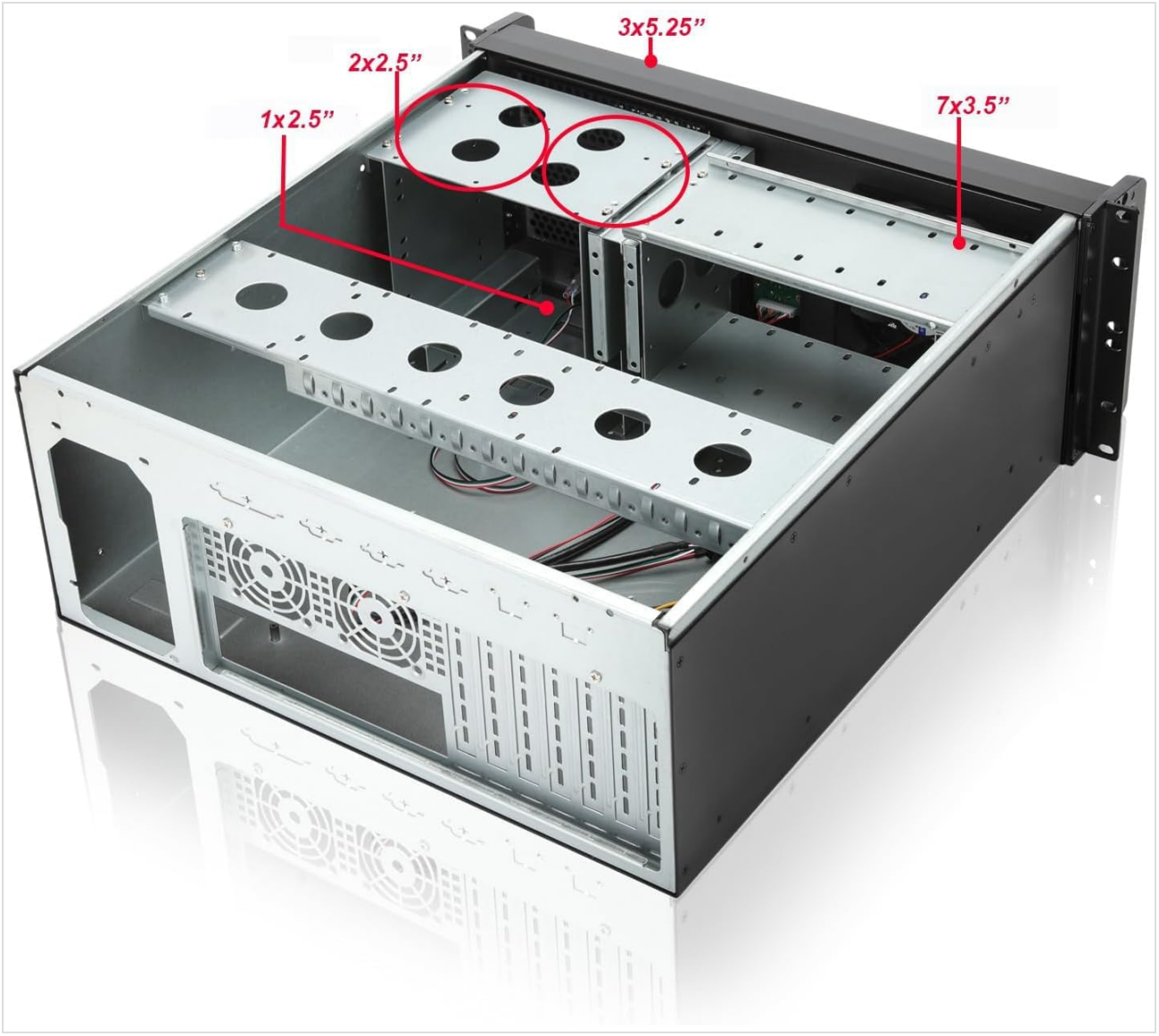


Figure 3: Internal layout highlighting the 5.25", 3.5", and 2.5" drive bay locations.

5. Expansion Card Installation

Install any necessary PCI/PCIe expansion cards (e.g., graphics cards, network cards) into the motherboard slots. Secure them with the retaining clips or screws at the rear of the chassis. Note that very long graphics cards may interfere with fully populated 3.5" HDD bays.



Figure 4: Rear panel of the chassis, showing expansion slots, I/O cutout, and fan mounting points.

Operating Instructions

Powering On/Off

Once all components are installed and connected, close and secure the chassis cover. Connect the power cable to the power supply and a wall outlet. Use the "ON/OFF" switch located on the front panel to power on or shut down the system. The "RESET" button can be used for system restarts.



Figure 5: Front panel of the chassis, displaying the power button, reset button, and USB ports.

Front Panel Connectivity

The front panel provides convenient access to two USB 3.0 ports (compatible with USB 2.0 devices via adapter). These ports can be used for connecting peripherals such as keyboards, mice, or external storage devices.

Maintenance

Dust Filter Cleaning

The front panel features a removable dust filter designed to prevent dust accumulation inside the chassis. Regularly inspect and clean the dust filter to maintain optimal airflow and cooling performance. To clean, open the front panel doors, remove the filter, and gently brush or vacuum away accumulated dust. Reinstall the filter once clean.

Fan Maintenance

Periodically check the pre-installed 12cm fan and any optional 6cm fans for dust buildup. Use compressed air or a soft brush to clean fan blades and grilles. Ensure fans are spinning freely and quietly. Replace any noisy or malfunctioning fans to prevent overheating.

Troubleshooting

System Not Powering On

- Verify that the power supply is securely connected to both the wall outlet and the chassis.
- Ensure the power supply's main switch is in the "ON" position.
- Check all internal power connections, especially the 24-pin ATX and 8-pin CPU power cables to the motherboard.
- Confirm that the front panel power switch cable is correctly connected to the motherboard's front panel header.

Excessive Fan Noise

- Inspect all fans (chassis, CPU, GPU, PSU) for dust buildup and clean them as described in the Maintenance section.
- Ensure no cables are obstructing fan blades.
- Consider replacing stock fans with quieter aftermarket alternatives if noise remains an issue.

Graphics Card / Expansion Card Fitment Issues

- If installing a long graphics card, ensure it does not interfere with the internal 3.5" HDD drive cages. Some configurations may require removing or relocating certain drive cages.
- Verify that the card is properly seated in the PCIe slot and secured at the rear.

Specifications

Feature	Detail
Model Name	N4058
Case Type	4U Rackmount
Dimensions (LxWxH)	17.7 x 19 x 7 inches (450mm depth without handle)
Item Weight	26.4 pounds
Material	Aluminum (front bezel), Zinc-Coated Steel (chassis)
Motherboard Compatibility	ATX, Micro ATX (up to 12" x 9.6")
External Drive Bays	3 x 5.25"
Internal Drive Bays	7 x 3.5", 3 x 2.5"
Front I/O Ports	2 x USB 3.0 (with USB 2.0 adapter)
Cooling	1 x 12cm fan (pre-installed), 2 x 6cm fan (optional)
Power Supply Support	Standard ATX PS-2 PSU (bottom mount)
Color	Black

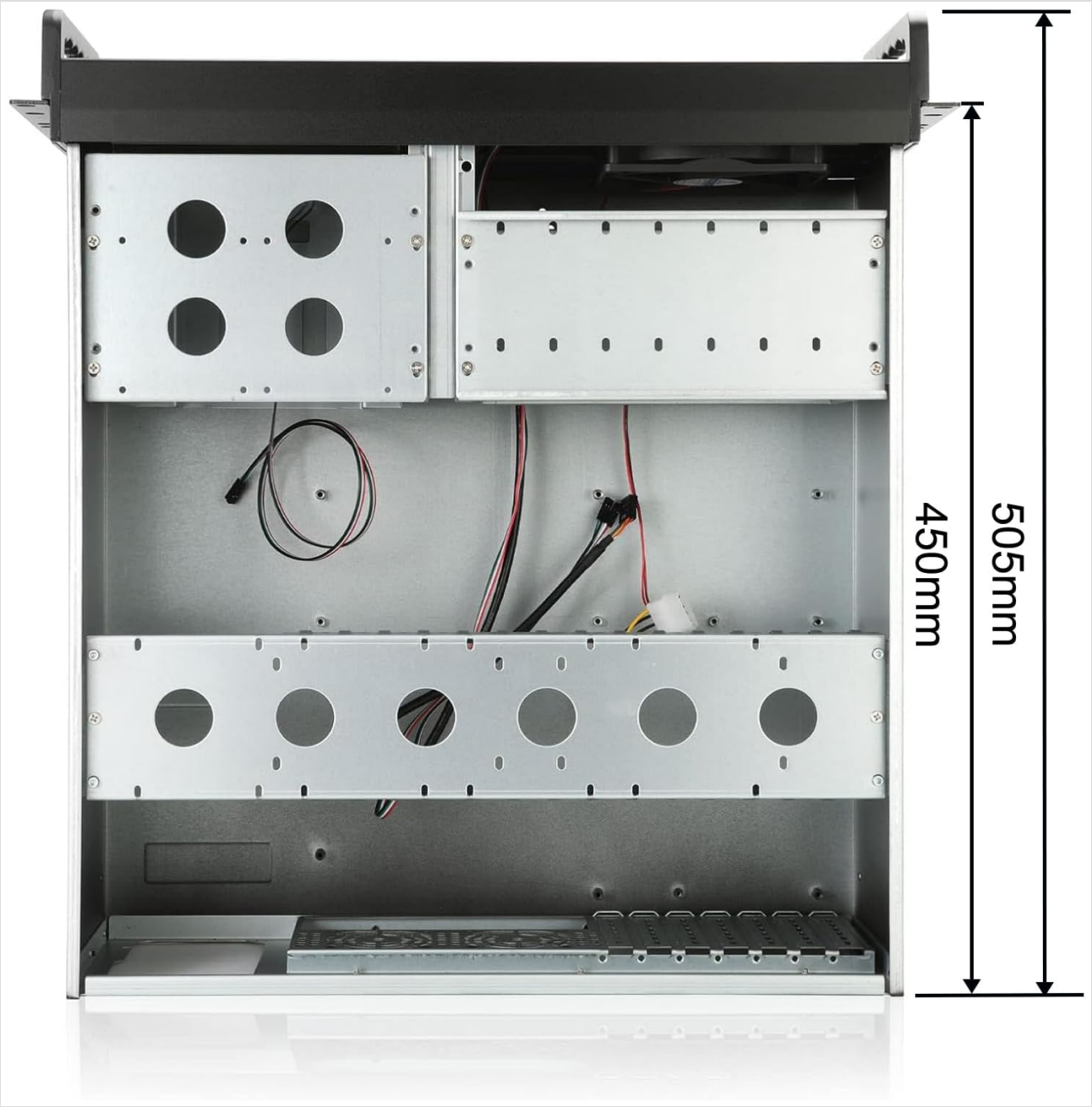


Figure 6: Internal dimensions of the chassis, showing depth measurements.

Warranty and Support

For specific warranty information and technical support, please refer to the official RackChoice website or contact your retailer. Additional protection plans may be available for purchase to extend coverage beyond the standard warranty period.

An official Installation Manual (PDF) is available for download: Download Installation Manual

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0BJ1956L2

More documents and user manuals: **https://manuals.plus/**