PrimeCables Cab-PC-08446-15U

PrimeCables 15U Wall Mount Server Rack Cabinet Instruction Manual

Model: Cab-PC-08446-15U

1. PRODUCT OVERVIEW

The PrimeCables 15U 19" Wall Mount Server Rack Cabinet is designed to house standard rackmount equipment such as NAS devices, servers, routers, AV systems, and gaming consoles. Constructed from durable SPCC cold-rolled steel with a powder-coated finish, it offers rust resistance and supports up to 440 lbs (200 kg). Its open-frame design promotes optimal airflow, and the inclusion of ventilated shelves and cable management slots helps maintain an organized setup. This versatile rack can be wall-mounted or used freestanding with its four locking casters, making it suitable for various home and office environments.

2. FEATURES

- **Multi-Functional Design:** Supports 19" standard rackmount devices (NAS, servers, routers, AV systems, gaming consoles) with 15U vertical space.
- **Heavy-Duty Construction:** Made of SPCC cold-rolled steel with a powder-coated finish for rust resistance, supporting up to 440 lbs (200 kg) with a 4-post reinforced structure.
- **Ventilated & Organized:** Open-frame design improves airflow to prevent overheating; includes ventilated shelves and cable management slots for tidy wiring and accessible equipment.
- **Space-Saving Design:** Can be wall-mounted or used freestanding with 4 locking casters for easy mobility. Compact dimensions (20.5x20x29 inches) fit small spaces.
- **Tool-Free Assembly:** Quick setup in minutes without professional tools; includes all necessary hardware for immediate use.

3. SAFETY INFORMATION

Please read and understand all safety instructions before assembly and use. Failure to follow these instructions may result in injury or damage to the product or connected equipment.

- Ensure the rack is assembled on a flat, stable surface.
- Do not exceed the maximum weight capacity of 440 lbs (200 kg).
- When wall-mounting, ensure the wall structure can safely support the weight of the rack and all installed

equipment. Consult a professional if unsure.

- Distribute equipment weight evenly within the rack to prevent tipping.

- Use appropriate personal protective equipment (e.g., gloves) during assembly to avoid cuts or pinches.

- Keep small parts and packaging materials away from children to prevent choking hazards.

4. PACKAGE CONTENTS

Verify that all components are present before beginning assembly. If any parts are missing or damaged, please contact customer support.

- Rack Frame Components (Top, Bottom, Side Panels, Front/Rear Rails)

- Ventilated Shelves

- 4 Locking Casters

- Assembly Hardware (screws, nuts, washers)

- Basic Assembly Tool (screwdriver)

5. SETUP AND ASSEMBLY INSTRUCTIONS

Follow these steps to assemble your PrimeCables 15U Wall Mount Server Rack Cabinet. A Phillips head screwdriver is recommended for assembly.

5.1. Visual Assembly Guide

Watch the official assembly video for a step-by-step visual guide:

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Video: How to Assemble 15U Network Server Cabinet Rack. This video demonstrates the assembly process for a similar PrimeCables network server cabinet.

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Video: PrimeCables Server Rack Wall Mount Network Server Cabinet. This video provides an overview of the assembly and features of a PrimeCables server rack.

5.2. Step-by-Step Assembly

1. **Unpack Components:** Carefully remove all parts from the packaging and lay them out on a clean, soft surface to prevent scratches. Verify all parts are present against the package contents list.

2. **Assemble the Base Frame:** Attach the side rails to the bottom panel using the provided screws. Ensure all connections are secure but do not overtighten initially.

3. **Attach Top Panel:** Secure the top panel to the side rails using the appropriate screws. This will form the main structure of the rack.

4. **Install Front and Rear Rails:** Insert the front and rear mounting rails into the designated slots on the top and bottom panels. Secure them with screws. These rails are where your equipment will be mounted.

5. **Attach Casters (Optional for Freestanding Use):** If using the rack freestanding, attach the four locking casters to the bottom panel. Ensure they are securely fastened.

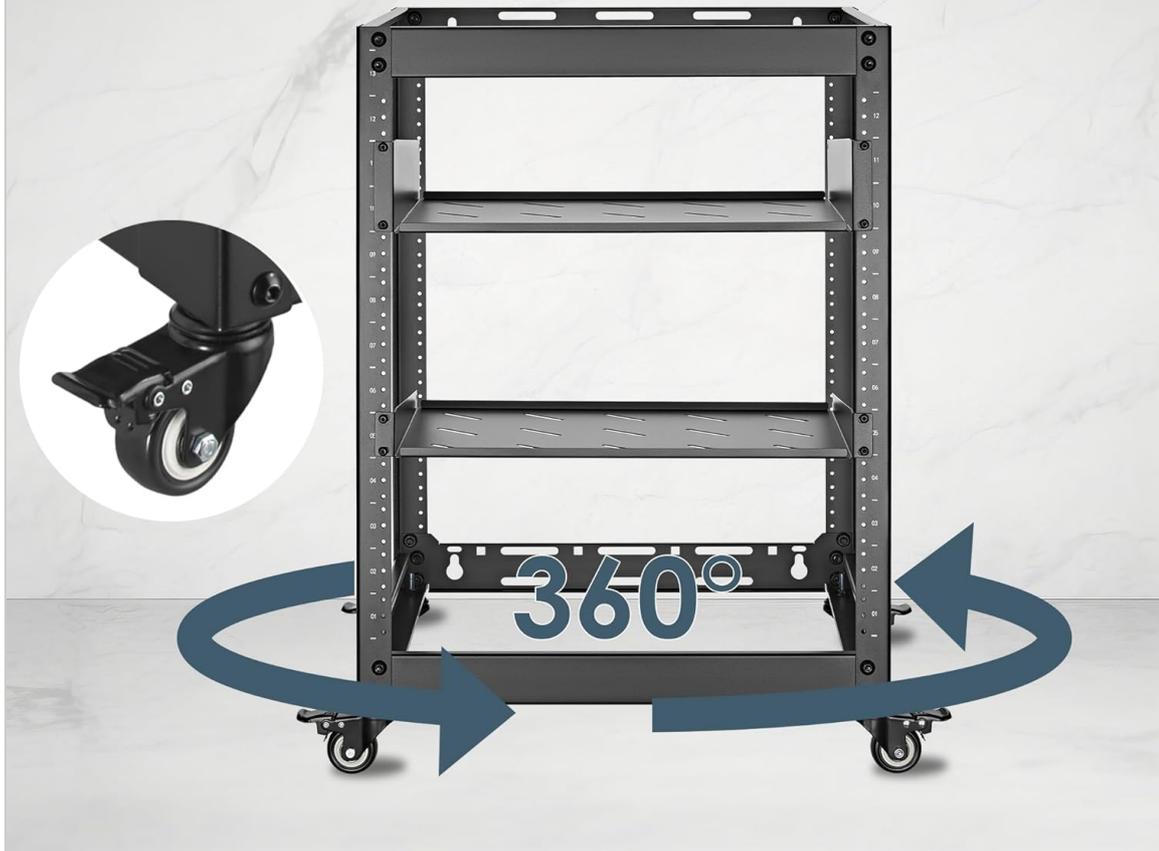# 360° Rotation

Designed with 4 silent wheels with brake.

Image: The server rack featuring 360-degree rotating silent wheels with brakes, highlighting the mobility and stability provided by the casters.

6. **Install Shelves:** Position the ventilated shelves at your desired height within the rack. The shelves are customizable and can be moved up, down, or faced in different directions. Secure them using the provided hardware.

Customizable Shelf Heights

Lets you move the vented shelves up, down,
or facing different directions.

Image: Customizable shelf heights within the rack, allowing users to adjust vented shelves for optimal equipment placement and airflow.

7. **Final Tightening:** Once all components are in place, go back and securely tighten all screws.

8. **Wall Mounting (Optional):** If wall-mounting, use appropriate wall anchors and screws (not always included, depending on wall type) to secure the rack to a sturdy wall. Ensure the mounting points are level and capable of supporting the total weight.

Image: Overall dimensions of the 15U server rack, indicating its height, width, and depth, along with the internal 12U rack space.
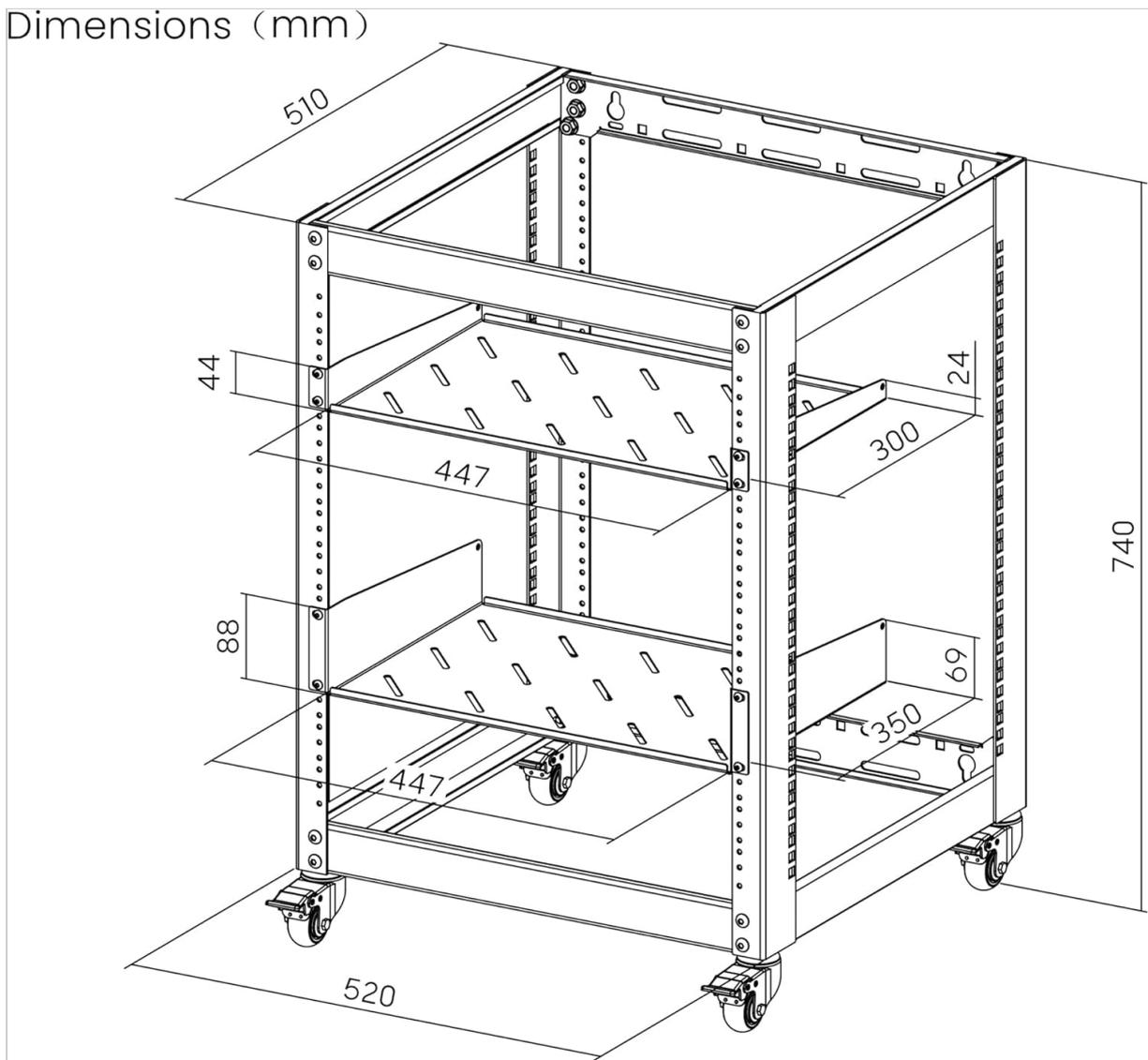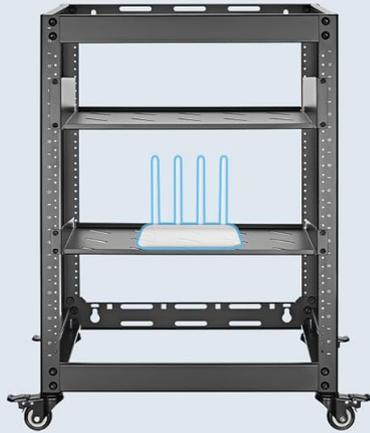
Dimensions（mm）

Image: Technical drawing providing precise dimensions in millimeters for the server rack, useful for planning equipment installation.

6. OPERATING INSTRUCTIONS

Once assembled, the server rack is ready for equipment installation.

- **Equipment Installation:** Mount 19-inch standard rackmount equipment directly onto the front and rear rails using appropriate rack screws (often supplied with equipment). For non-rackmount items, use the provided ventilated shelves.

- **Cable Management:** Utilize the integrated cable management slots to route and secure cables, preventing tangles and improving airflow.

- **Airflow:** The open-frame design facilitates natural convection. Ensure adequate space around the rack for optimal air circulation, especially if placing it in an enclosed area.

- **Mobility (Freestanding):** If using casters, unlock them to move the rack. Always lock the casters once the rack is in its desired position to prevent accidental movement.

Usage Scenario

Router	Switch

Speaker	PDU Power Strip

Image: Examples of equipment that can be housed in the rack, including routers, switches, speakers, and power distribution units (PDUs).

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your server rack.

- **Cleaning:** Wipe down the rack with a soft, damp cloth to remove dust and debris. Avoid abrasive cleaners or solvents that could damage the finish.
- **Hardware Check:** Periodically inspect all screws and connections to ensure they remain tight. Retighten as necessary.
- **Caster Inspection:** If using casters, check them for smooth operation and ensure the locking mechanisms function correctly.
- **Airflow Obstruction:** Ensure that the ventilated areas of the rack and any installed equipment are not obstructed, maintaining proper airflow.

8. TROUBLESHOOTING

If you encounter issues with your server rack, refer to these common solutions.

- **Rack Instability:**

- Ensure all assembly screws are fully tightened.
- Verify the rack is on a level surface.
- If using casters, ensure they are locked when stationary.
- Check that equipment weight is evenly distributed.

- **Overheating Equipment:**

  - Ensure the open-frame design is not obstructed by walls or other objects.
  - Verify that equipment fans are not blocked.
  - Consider adding external cooling fans if necessary, especially in warm environments.

- **Difficulty Mounting Equipment:**

  - Confirm equipment is 19-inch rackmount standard.
  - Ensure the mounting rails are correctly installed and aligned.
  - Use appropriate rack screws for your equipment.

9. SPECIFICATIONS

Attribute	Detail
Brand	PrimeCables
Model Number	Cab-PC-08446-15U
Rack Units (U)	15U
Material Type	SPCC Cold-Rolled Steel (Alloy Steel)
Color	Black
Mounting Type	Wall Mount / Freestanding
Weight Capacity	440 lbs (200 kg)
Product Dimensions (L x W x H)	51 x 52 x 74 cm (20.5 x 20 x 29 inches)
Item Weight	12.3 kg
Compatible Devices	Servers, NAS, Routers, AV Systems, Gaming Consoles (19" standard rackmount)
Assembly Required	Yes

440lbs Weight Capacity

Support an amazing 200kg/440lbs of professional-grade equipment.

Image: Illustration of the rack's robust construction, highlighting its 440 lbs (200 kg) weight capacity for professional-grade equipment.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or to inquire about replacement parts, please contact PrimeCables customer service. Refer to your purchase documentation for specific warranty terms and contact details.
You can typically find support information on the official PrimeCables website or through the retailer where the product was purchased.