

Network Rack Models and Specifications



Article Overview

Network racks and server cabinets vary by size, load capacity, material, and features, with models designed for small offices to hyperscale data centers.

Key Specifications

Rack Height (U): Standard racks follow the EIA-310 specification, typically ranging from 4U to 52U, with 42U being the most common for enterprise deployments . **Rack Depth:** Depths vary from 600mm to 1200mm, accommodating shallow network switches to deep chassis servers while allowing space for cable management and PDUs . **Load Capacity:** Static load capacities range from 3000 lbs to 5000 lbs, depending on the model and material, ensuring safe support for fully populated racks . **Materials:** Racks are commonly constructed from tubular steel, aluminum, or sheet metal, providing structural rigidity and durability . **Airflow and Cooling:** High-performance racks feature perforated front and rear doors, optimized for front-to-rear airflow, and may include options for fans or airflow management panels . **Cable Management:** Integrated vertical and horizontal cable managers, multiple entry/exit points, and PDU mounting options are standard to maintain organized and efficient cabling . **Security and Compliance:** Many racks offer lockable doors, side panels, and seismic certification for earthquake-prone areas. Compliance with EIA-310 ensures compatibility with global hardware . **Mobility:** Some models include heavy-duty casters for dynamic load handling, allowing racks to be moved while fully loaded .

Primary Rack Categories

- **Wall-Mount Racks (4U-22U):** Ideal for small branch offices, retail closets, or edge nodes. Often feature swing-out frames for rear access without demounting equipment...

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The width between the rack-mounting rails must be at least 17.75 inches (45.0 cm) if the rear of the device is not attached to the

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Contact Us

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