Network Server Rack Specifications

Overview

7.2 universal mounting rails support installation of industry standard 19” rack mount server, network and electronic components, infinitely depth variable attached to depth stays.

Key Takeaways

Network server racks are standardized enclosures designed to house IT equipment, typically following the 19-inch width standard, with heights from 24U to 48U, depths from 600 mm to 1200 mm, and robust load-bearing capabilities.

Rack Dimensions

Height: Measured in rack units (U), where 1U = 1. 75 inches (44. 45 mm).

Common heights include 24U, 36U, 42U, 45U, and 48U, with 42U being the most widely used in enterprise data centers. Width: Standard mounting rail width is 19 inches (482 mm), though external widths vary between 600 mm and 800 mm depending on manufacturer and design. Depth: Varies from 600 mm for smaller installations to 1200 mm or more for high-capacity servers and storage arrays.

Shallow racks (24–27 inches) are suitable for patch panels and network switches, while deeper racks (42–48 inches) accommodate enterprise servers and GPU systems. Adjustable mounting rails allow flexibility for devices of varying lengths.

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Structural and Material Specifications

Material: Typically steel or aluminum, with side panels, mounting rails, and reinforcement brackets. Thickness: Metal components range from 1. 5 mm to 2.

5 mm. Thicker materials (2. 0–2.

5 mm) provide higher durability for heavy-load environments, while 1. 5 mm is used for lighter-duty applications. Load Capacity: Critical load-bearing elements are engineered to support 50 kg or more per rack level, ensuring stability for servers, UPS units, and networking equipment.

Tolerances: Precise manufacturing tolerances (±0. 2 mm) ensure proper alignment of equipment and secure mounting.

Additional Considerations

Airflow and Cooling: Rack design optimizes airflow to prevent overheating, with open-frame or perforated panels commonly used. Cable Management: Vertical and horizontal cable management options improve accessibility and maintenance. Compatibility: Designed to comply with EIA-310 and IEC 60297 standards, ensuring interoperability with a wide range of IT equipment.

Specialized Racks: Variants include wall-mount cabinets, open-frame racks, and seismic-rated enclosures for specific environments. Choosing the correct rack involves balancing equipment size, cooling requirements, weight capacity, and future expansion, ensuring efficient and reliable operation of your network infrastructure.

Article Content

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