Standard Network Rack Size and Price

Overview

Discover essential information on server rack sizes and dimensions, including heights, widths, and depths, in our ultimate guide.

Key Takeaways

Network racks typically range from 4U to 48U in height, 19-inch width, and 600–1200mm depth, with prices varying from $100 for small wall-mount units to over $2,000 for full-size enterprise racks.Common Rack Sizes
• Width: Standard racks are 19 inches between mounting rails (EIA-310 standard), compatible with most servers, switches, and patch panels .

• Height: Measured in rack units (U), where 1U = 1.75 inches. Common heights include 12U, 24U, 36U, 42U, and 48U. Shorter racks (4U–22U) are ideal for small offices or edge nodes, while 42U–48U are standard for enterprise data centers .

• Depth: Varies from 600mm to 1200mm. Shallow racks (600–800mm) suit switches and patch panels, while deeper racks (1000–1200mm) accommodate servers with large chassis and allow cable clearance .
Types of Racks
• Wall-Mount Racks: Compact, 12U–22U, ideal for small offices or network closets. Can be mesh or solid doors, sometimes lockable .

• Floor-Standing Racks: Full-height 42U–48U, support heavy servers, UPS units, and storage arrays. Often 4-post with enclosed doors for security and airflow management .

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• Open-Frame Racks: Lightweight, easy access, suitable for labs or low-security environments. Less expensive but limited protection from dust or tampering .
Pricing Overview
• Small Wall-Mount Racks (12U–18U): $100–$300, depending on depth, material, and locking features .

• Medium Floor-Standing Racks (24U–36U): $300–$800, often with mesh doors and cable management options .

• Full-Height Enterprise Racks (42U–48U): $800–$2,500+, built from high-gauge steel, supporting heavy loads, advanced airflow, and security features .
Additional Considerations
• Load Capacity: Ensure the rack supports the weight of fully populated servers; enterprise racks can exceed 1,000 kg .

• Cooling and Airflow: Mesh or louvered doors improve ventilation; some racks include built-in fans .

• Cable Management: Side panels, rear access, and top/bottom openings help organize cables and maintain airflow .

• Security: Lockable doors and panels protect sensitive equipment in shared environments . Choosing the right rack involves balancing space, equipment depth, future expansion, and budget. For small setups, a 12U–24U wall-mount rack may suffice, while enterprise environments typically require 42U–48U floor-standing racks with full environmental control.

Article Content

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Common server rack sizes are 19-inch width, heights like 42U or 48U, and depths from ~24″ to 48″. Choose size

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2-post racks vs. 4-post racks The final element to consider when looking at server rack sizes is the rack type. 2-post

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Server racks have their own measuring unit, which is associated with the height of the device that will be installed. While the width

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SYSRACKS Official Store: Racks, Cabinets & Accessories

By entering your required dimensions for height, length, and depth, the configurator will instantly search

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Network Racks

KFFKFF 9U Wall Mount Rack, Supports up to 150 lbs/68.04 kg, Open Frame Design for Server Network

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Shop server racks, network cabinets, wall mount racks, and open frame racks for data centers, IT rooms, and AV installations. Fast

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Network Cabinet Sizes: 42U to 48U Standards Explained

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