

Dimensions of a 22U Network Rack

Article Overview

A standard 22U network rack has a vertical mounting height of 38.5 inches (978 mm), a width of 19 inches (482.6 mm), and a depth ranging from 20 inches (508 mm) to 36 inches (914 mm), depending on the model.

Height

The "22U" designation refers to 22 rack units, with each unit (U) measuring 1.75 inches (44.45 mm). Therefore, the total usable vertical mounting space is 38.5 inches (978 mm). Note that the overall cabinet height may be slightly taller (typically 1080-1160 mm) to accommodate top/bottom frames, leveling feet, or casters .

Width

The standard width between mounting rails is 19 inches (482.6 mm), which is consistent across all 22U racks to ensure compatibility with standard 19-inch rack-mount equipment such as servers, switches, and patch panels .

Depth

Depth varies depending on the intended use:

- o Shallow racks: ~20-24 inches (508-610 mm), suitable for patch panels, PoE injectors, or compact networking devices.
- o Mid-depth racks: ~600-800 mm (23.6-31.5 inches), common for office or edge networking setups.
- o Deep racks: up to 36 inches (914 mm) or more, designed for full-depth servers, dual-socket systems, or extensive rear cable management .

Additional Considerations

- o Load capacity: Most 22U racks support 600-800 kg static load, depending on construction and materials .
- o Airflow and ventilation: Depth and door type (glass or perforated) affect cooling efficiency; deeper racks allow better airflow and cable management .
- o Footprint planning: Always account for extra space for casters, leveling feet, and clearance behind the rack for service access, which can add 3-6 inches to the total height . By understanding these dimensions and variations, you can ensure proper fit for your equipment, maintain airflow, and plan for installation in constrained spaces.



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Get a comprehensive guide on server rack cabinet sizes and dimensions. Understand the

22U Enterprise-Grade Server Rack Cabinet, 19in Enclosed 4-Post Rack with 33in (83cm) Mounting Depth and 1764lb (800kg)

The 19" Rack MSS 22U/55 is designed to install 19" technology outdoors. Its design enables opening of side panels, which

Confused about 22U server rack height, depth, weight limits, or compatibility? This guide explains standard specs,

Our offerings include a variety of cabinets and racks with detailed specifications such as server cabinet sizes, comms rack sizes,

What are the dimensions of a 22U rack? The standard dimensions of a 22U rack are 38.5 inches (978.1 mm) in height, 19 inches

A rack unit calculator is an effective way to convert the U height of your network equipment

In this guide, we'll break down the key server rack dimensions and the fit-out factors that matter most when choosing

NavePoint 22U Server Cabinet Wall Mount Rack Enclosure with Caster Wheels, 2 Fans, Locking Glass Door, Removable Side

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

It is ideal as a mini telecommunications room or for remote network distribution and consolidation points in

Server Rack Size Guide The table below can be used to determine the height of a server rack or cabinet in metric and imperial

Confused about 22U rack height, depth, or capacity? Learn how 22U (38.5" tall) fits your home lab or small business

About this item PROFESSIONAL SERVER RACK CABINET - Wall mount network rack cabinet designed for IT infrastructure

In branch offices or telecom rooms where space is limited, 6U-12U wall-mount racks or 22U-27U

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floor-standing racks are often

Server rack size and dimensions are important considerations for implementation. We explore standard server rack

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