

Article Overview

A 2-meter tall server rack typically corresponds to a 42U rack with a standard 19-inch width.

Height and Rack Units

Server rack height is measured in rack units (U), where 1U = 1.75 inches (44.45 mm). A 42U rack provides approximately 73.5 inches (1.87 meters) of usable vertical space, which is close to 2 meters and is the most common height for enterprise server racks . Other options include 45U or 48U racks for slightly taller configurations, but 42U is standard for most data centers and server rooms .

Width

The standard rack width is 19 inches (482.6 mm) between mounting rails, which accommodates nearly all mainstream IT equipment such as servers, switches, and patch panels . The external cabinet width is slightly larger to allow for cable management and airflow, typically around 600 mm (24 inches) for standard enclosures .

Depth

Rack depth varies depending on the equipment type:

- o Shallow racks (24-27 inches / 600-700 mm) are suitable for patch panels, network switches, and AV equipment.
- o Standard racks (1000-1200 mm / 39-47 inches) are recommended for servers, storage arrays, and GPU systems to ensure proper fit and airflow .

Planning Considerations

When selecting a 2-meter rack:

- o Allow extra space for cabling and airflow, typically 3-6 inches (75-150 mm) beyond the deepest device .
- o Future expansion: Add 20-30% extra capacity to accommodate new equipment.
- o Load capacity: Verify the rack can support heavy UPS units or storage arrays if needed.
- o Airflow and cooling: Ensure proper ventilation and spacing between devices to prevent overheating .

Summary

For a 2-meter tall server rack, the recommended configuration is:

Server rack network height 2 meters

- o Height: 42U (~1.87 m)
- o Width: 19-inch standard (482.6 mm)
- o Depth: 1000-1200 mm for servers, 600-800 mm for switches/patch panels This setup balances standardization, equipment compatibility, and future scalability, making it suitable for most IT environments .

Find the perfect server rack size for your data center. Understand rack units (1U, 2U, 4U),

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

Network racks are the ideal solution for mounting, organizing and securing servers and other network

Explore the essential aspects of server rack dimensions, including U, width, depth, and air management for effective

Below is a comprehensive, fully detailed guide covering all standard server rack sizes, form

Learn what a rack unit (U) is, how 1U/2U/4U differ, and how to pick the right chassis height for disks, PCIe/GPU, noise,

The datacenter rack unit "U" is the standard unit used to measure the height of the server racks, or in other words, the

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

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

Choosing the correct server rack size is essential for maximizing performance, airflow

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

An undersized rack limits airflow and future expansion, while an oversized rack can waste valuable floor space. To

A guide to server racks showing the U Height in metres, centimetres, millimetres, feet and inches from Server Room Environments.

Server rack network height 2 meters

Choosing the correct server rack height is one of the most important steps in building or upgrading an IT environment.

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