

1u Network Rack Standard Dimensions



Article Overview

A 1U rack unit has a standard width of 19 inches (482.6 mm).

A 1U (rack unit) is a standardized vertical measurement used in 19-inch racks, defined by the EIA-310-D standard. While 1U refers specifically to height—1.75 inches (44.45 mm)—the width of equipment designed for a 1U slot is 19 inches (482.6 mm), which is the distance between the mounting rails inside the rack. This width accommodates most servers, switches, patch panels, and other network devices in standard IT racks.

Additional Details

- Height: 1U = 1.75 inches (44.45 mm), though actual equipment may be slightly less (1.72–1.745 inches) to allow for airflow and safe installation.
- Depth: While width is standardized, depth varies by device and rack, typically ranging from 17 to 21 inches for 1U equipment, with full racks often 24–48 inches deep.
- Mounting: 1U devices use standardized mounting hole spacing on the rack rails, ensuring compatibility across different manufacturers.
- Rack Capacity: Racks are sized by total U capacity (e.g., 6U, 24U, 42U), and 1U devices occupy one unit of vertical space within these racks. Understanding these dimensions is critical for proper installation, airflow management, and ensuring that network or server equipment fits correctly in the rack without interference or thermal issues.

Article Content

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Rack Unit (U): Size, Height & Standard Rack Mount Dimensions

In simple terms, a rack unit is a standard measurement used to describe the vertical height of rack-mountable

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Server Rack Sizes: Understanding the Differences

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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In millimetres, this translates to approximately 482.6 mm. This width is the reference dimension for most server,

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Understanding Rack Units (U) in Server Racks [July 2026]

A "Rack Unit" (U) is a standard height measure for mounting equipment in a server rack. One U = 1.75 in (44.45 mm).

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Data Center Rack Standards

Data center rack standards are widely used throughout the telecommunication, computing, audio, entertainment and other industries.

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Server Rack Sizes & Dimensions Explained: The Ultimate Guide to

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

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Understanding 1U Rack Dimensions: A Comprehensive Guide for IT ...

Understanding 1U rack dimensions is essential for IT professionals. The standard height of 1.75 inches ensures compatibility and

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19-inch rack

The 19 inch dimension includes the edges or ears that protrude from each side of the equipment, allowing the module to be fastened

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Rack unit

It can also describe a unit that is 1U high and half the depth of a 4-post rack (such as a network switch, router, KVM switch, or

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1U Rack Size Explained: The Essential Guide to 1U Rack Size and Its ...

Standard Dimensions, Tolerances and What They Matter The 1U form factor is governed by industry standards to

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Understanding Rack Mount System Sizing

Some companies also use 1RU instead of just using 1U to represent the height of a rack mount system. These heights

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Server Rack Sizes and Standards: A Complete Guide

Learn about server rack sizes, industry standards, and key factors to consider before purchasing. Optimize your IT

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Understanding 1U, 2U, ... 18U, 42U: What They Mean in Network

Decoding Rack Units: Your Essential Guide to Understanding 1U, 2U, and Beyond 1U, 2U, 18U, 42U: What Do

May 09, 2026

1U Rack U Rackmount Measurements | Comms Express | Comms

Key Takeaways The "U" Definition: A "U" is the universal unit of measurement for vertical space in server racks. Exact Dimensions:

Jan 28, 2026

Server Rack Sizes & Dimensions Guide 2026

Height - Measured in rack units (U), where 1U = 1.75 inches. Common sizes include 24U, 42U, and 48U. Depth -

Apr 25, 2026

1U vs 2U vs 4U Servers: What “U” Means & How to Choose in 2026

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,

Dec 04, 2025

What Is 1U Server Rack Size? Exact Dimensions in Inches & mm

This lack of depth standardization is the #1 source of mismatched installations — especially when retrofitting older

Nov 08, 2025

Rack Unit Calculator | Penn Elcom

One U is 1.75 inches (44.45mm); the standard rack, at 19 inches, is 42U. Rack servers and other hardware designed to be rack

Contact Us

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