

1U Chassis and Front Panel Dimensions Standards



Overview

You'll get the precise, standardized dimensions of a 1U server rack unit — including height (1.45 m), width (19" / 48.26 cm), mounting hole spacing, and critical clearance allowances — plus actionable guidance on verifying physical fit, avoiding common installation. A rack unit (abbreviated U or RU) is a unit of measure defined as 1.75 inches (44.45 mm). It is most frequently used as a measurement of the overall height of 19-inch and 23-inch rack frames, as well as the height of equipment that mounts in these frames, whereby the height of the frame or dimensions, mounting interface, a typical depth or structural topology accommodates (hot-swappable AC/DC) cycling. There are two 1U standards: Intellijel and Pulp Logic. The PCB behind the front panel is typically about 18.5 inches (469.9 mm) long.



Article Content

19-inch rack

Portable 19-inch racks filled with audio processing outboard gear are a common sight at concerts with amplified sound. A full-height

What Is 1U Rack Size? Height, Width, Depth in Inches & mm

Confused about 1U rack size? Learn the exact EIA-310-D standard dimensions (1.75" × 19"), why usable depth is less

1U Chassis Images

SBx-1 chassis are available in depths of 9 1/2", 12", 15", 19", 24". The Front Panel is notched to EIA specifications for mounting in

What Is a 1U Server Rack Size? Exact Dimensions & Mounting Guide

A 1U server rack measures exactly 1.75 inches (44.45 mm) in height and fits standard 19-inch racks. Learn why

What's the difference between 1U, 2U, 3U and 4U rackmount systems?

A U is defined as 1 3/4 inches or 44.45mm. The same standard is used to describe the rack itself, and the equipment

1U Technical Specifications

The 1U panel size is based on the 3U size scaled down to fit in a 1U row. See the diagram below: The details of the panel hole

Rack unit

To allow space between adjacent rack-mounted components, a panel is 1/32 inch (0.031 in; 0.79 mm) less in height than the full

Eurorack Panel Dimensions

There are two 1U standards: Intellijel and Pulp Logic. The main difference is height – Pulp Logic 1U measures 43.18 mm, while

Standard Rack Size

Confused about 1U rack size? Get precise height (1.75"), width (19"), depth range (20–30"), and why measurements

How Tall Is 1U? A Practical Guide to Server Rack Dimensions and the ...

A 1U server rack unit measures exactly 44.5 millimeters in height according to the EIA standard. Understanding this precise

19-Inch Rack Size and Dimensions Explained: The Complete Guide to ...

Discover the essential guide to 19-inch rack sizes and dimensions for servers and rackmount PCs. Learn about

How is U used as a measurement for servers?

How to calculate a U measurement A rack unit of length is based on the Eurocard EIA-310 standard rack specification.

U Rack Dimensions — What Is U in Server Rack?

A “U” rack dimension stands for a rack unit and refers to the height of a device that can be mounted in the

Enterprise Core Systems Engineering Reference Manual: 1U

This specification defines the external mechanical dimensions, mounting interfaces, thermal clearance thresholds, and structural

What are rack unit (U) measurements in data center servers?

The width and depth of standard data center racks slightly vary by manufacturer, but the industry standard is 19 inches wide and 36

Rack Mount Enclosures: The Ultimate Guide to Cabinets & Chassis

EIA Standards: 19-inch racks typically adhere to EIA standards (specifically EIA-310), which define the dimensions

Enterprise Core Systems Engineering Reference Manual: 1U

standard for high-density telecommunications, enterprise data center, and carrier-grade network deployments. This specification

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,

Choose the Perfect Rackmount Server Case: 1U to 4U Guide

The “U” in 1U, 2U, 3U, and 4U rackmount chassis refers to a standard unit of measurement (1.75 inches or 44.45

What Are 1U Server Rack Dimensions? Height, Width & Depth Guide

A 1U server rack unit is exactly 1.75 inches (44.45 mm) high and 19 inches (482.6 mm) wide — but depth varies

Enterprise Core Systems Engineering Reference Manual: 1U

PRODUCT IDENTIFICATION The 1U Rackmount Form Factor represents the foundational hardware chassis standard for high

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