

What are the standard dimensions of a 19-inch 1U chassis



Article Overview

A 19-inch 1U chassis is 19 inches (482.6 mm) wide and 1.75 inches (44.45 mm) high, with depth varying by device.

Width

The standard width of a 19-inch rack-mounted chassis is 19 inches (482.6 mm), measured from the outer edges of the mounting flanges (ears) that attach to the rack rails. The usable interior width where components sit is typically around 17.75 inches, accounting for flange thickness and rail spacing, ensuring compatibility with standard racks .

Height

A 1U chassis corresponds to 1 rack unit, which is nominally 1.75 inches (44.45 mm). In practice, the actual equipment height is slightly less—usually between 1.72 inches and 1.745 inches—to allow for airflow, thermal expansion, and safe insertion/removal without binding on adjacent units . The height formula for n rack units is $h = 1.75n - 0.031$ inches, providing a small clearance above and below the equipment .

Depth

The depth of a 1U chassis is not standardized and can vary widely depending on the type of equipment. Typical depths include:

- Network switches: 15–20 inches
- Standard 1U servers: 24–28 inches

Article Content

19" rack equipment dimensional data

19" rack equipment dimensional data as specified by BS5954 (1980) and IEC 297 (1975). Single and double gang electrical plate

1U Rack U Rackmount Measurements | Comms Express | Comms

Exact Dimensions: 1U = 1.75 inches or 4.445 cm. Standardization: All 19-inch rack-mounted devices are sized in multiples of U (1U,

Standards of 19-Inch Rack: depth, width & — SysRacks Explained

When designing and choosing 19-inch cabinets, it is important to consider 19U rack dimensions: height, width, and depth. The

Rack unit

The 19-inch rack format with rack units of 1.75 inches (44.45 mm) was established as a standard by AT& T around 1922 in order to

Server Racks and Their Sizes

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

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

19-inch rack

A standard 19-inch server rack cabinet is typically 42u in height, 600 millimetres (24 in) wide, and 36 inches (914.40 mm) deep.

A Definitive Guide to 19-Inch Server Rack Sizes | Everpure

19 inches is the standard width of a mountable server rack. In this guide, we'll cover everything you need to know about sizing rack

19" Rack Mount Steel Chassis, 1U Height and 300mm Deep

Pre-drilled and assembled 1U rackmount enclosure for easily mounting projects on a standard 19" rack. Heavy-duty steel chassis

A Definitive Guide to 19-Inch Server Rack Sizes | Everpure

Technically, this 19-inch measurement refers to the width of the front panel of the mountable module that slides into the rack, while

How big is a "U" when measuring rack size? | CyberPower

Racks offer room for equipment that is 19" wide, and have variable heights, which are expressed in rack units. One rack unit (1U) is

What are the Standard Server Rack Dimensions?

Datacenter equipment racks are normally 19 inches wide, which is considered the standard server rack width. There are also 24-wide

19 Inch Rack Enclosure: Sizes, Types & Selection Guide

A standard 1U device is 1.75 inches tall, a 2U is 3.5 inches, and a standard 4U is 7 inches. Add 25-30% extra capacity for cable

Contact Us

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