

1U Chassis Standard Dimensions Diagram

Article Overview

A 1U chassis has a standard height of 1.75 inches (44.45 mm) and a width of 19 inches (482.6 mm), with mounting holes spaced according to EIA-310-D standards.

Standard Dimensions of a 1U Chassis

- o Height: 1U = 1.75 inches (44.45 mm). Actual equipment height is slightly less, typically 1.72-1.745 inches (43.66-44.33 mm), to allow for airflow, thermal expansion, and safe insertion/removal .
- o Width: The standard 19-inch rack width is measured from the outer edges of the mounting flanges. The usable interior width is approximately 17.75 inches (451 mm) due to flange thickness .
- o Depth: Not standardized by the U system; 1U devices can range from 8 inches to 36 inches depending on the application, with typical servers around 24-28 inches and network switches 15-20 inches .
- o Mounting Hole Spacing: 19-inch racks use uneven vertical spacing for mounting holes, typically three holes per U, allowing secure attachment of equipment . The horizontal spacing aligns with the 19-inch standard.
- o Tolerance: Manufacturing tolerances are usually ± 0.01 inches for precise fit .

Diagrammatic Representation

Front View (19-inch rack width)+-----+

Figure 2: Structure 1U - Side View Figure 3: Structure 1U - Top View (Z+) Figure 4: Structure 1U - Bottom View (Z-)

I. What is a 1U/2U/4U (Rack Unit)? 1U, 2U, and 4U are terms used to describe the height of a piece of equipment

The rack unit decoded: 1U = 1.75 inches (44.45 mm), the 19-inch rail geometry and hole pattern, common heights (42U standard), 23

A 1U server rack measures exactly 1.75 inches (44.45 mm) in height and fits standard 19

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

A maximum of 4 hard drives can be inserted in 1U, and 8 in 2U. In addition, the numbers of PCI slots are also

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The rack unit size is based on a standard rack specification as defined in EIA -310. The Eurocard specifies a standard rack unit as

Rack Units Explained - U height needs split up by customer demographic. If you are wondering how much rack space

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,

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

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

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

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

Road case racks come in different heights based on the 1U standard and different depths. Non-isolated cases simply mount 19-inch

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

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

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