

Standard 1U Chassis Internal 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

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

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

Structure 1U is an acronym for Structure 1 Unit. Please read carefully the manual before unpacking the elements to

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

1u (1 3/4") Heavy-Duty Rack-Mount Chassis Introducing the STRONGBOX®; 1 3/4" high (1 rack unit) by 19" wide, heavy-duty

A "Rack Unit" (U) is a standard height measure for mounting equipment in a server rack.

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

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

ALL DIMENSIONS ARE IN INCHES.

Cable Bar Note: Cable Bar cannot be used on Racks less than 24" deep Tolerance ± 0.01 ALL DIMENSIONS ARE IN INCHES.

Confused about 1U rack size? Learn the exact EIA-310-D standard dimensions (1.75" $\pm$.01; 19"), why usable depth is less

Using the ConceptDraw Rack Diagrams solution, you can quickly and easily design a rack diagram from the set of vector graphics

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 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

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

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

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

Web: <https://www.kremgroup.co.za>

