

1U Standard Chassis Dimensions for Cloud Computing



Overview

You'll get the precise, standardized dimensions of a 1U server rack unit — including height (1.45 mm), 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 inches (44. [][] 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. Have any questions?

Talk with us directly using LiveChat. This standardization allows IT equipment like servers, switches, routers, and patch panels to fit seamlessly into racks, regardless of manufacturer or brand. A 2U device is twice as tall as.



Article Content

Oct 29, 2025

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 equipment. 1U equals 1.75 inches (or 44.45 mm), making it easy to size ...

Dec 20, 2025

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, power, rails, and airflow. ☑☑ Checklist included.

Feb 04, 2026

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 server), such that two units can be mounted in 1U of space (one mounted at ...

Jan 09, 2026

1U, 2U, ... 18U, 42U: What Do They Mean?

A 1U server takes up 1.75 inches of vertical space, while a 2U server occupies 3.5 inches, and so on. Full-height racks, often rated at 42U, provide ample space to house an array of servers and ...

Dec 31, 2025

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 equipment must stay *under* that limit, how depth varies, and how to verify ...

Dec 26, 2025

Open Rack Base Specification Version 3

These dimensions may vary per rack developer's requirements. Consideration needs to be given to shipping constraints including packaging (truck height) and doorway access limitations within data ...

Feb 12, 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 – Varies depending on your equipment and airflow needs. Standard ...

Jul 31, 2025

What is U Height: Rack Units Explained

1 Rack Unit (1U) = 1.75 inches (44.45 millimeters) in height. This standardization allows IT equipment like servers, switches, routers, and patch panels to fit seamlessly into racks, regardless of ...

Feb 23, 2026

1U Rackmount Chassis / InWin / IW-RS116-E1

The enclosure is equipped with six 40 x 56 mm high-RPM fans that ensure optimal airflow to meet the thermal demands of PCIe Gen5. Ideal for customers seeking high-density, stable, and high ...

Oct 06, 2025

1U vs. 2U vs. 3U: Rack Units Explained | EDN

For electronic equipment racks (e.g., 19 or 23 inches wide), the term 1U is used to define one rack unit of height. 3U height would be $3 \times 1.75'' = 5.25$ -inches. It should be noted that the 1U, ...

Feb 07, 2026

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

U is about height and planning. 1U is maximum density and maximum cooling/acoustic demands, 2U is the most universal balance, 4U is when drives, PCIe, GPU, and serviceability are ...

Jul 01, 2026

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, 2U, 4U, etc.). Industry Standard: This measurement is governed by the ...

Mar 06, 2026

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

Devices designed to fit into rackmount server cabinets come in a range of heights, from 1U to 4U. A 1U panel is 1 Rack Unit tall, a 2U is 2 Rack Units tall and so on.

Apr 03, 2026

1U Racksize PDU + UPS Products | CyberPower Systems

MSRP \$ 1,309.00 Voltage: 100 - 120 VAC Cord Length: 10 ft (3.0 m) Racksize: 1U
Current: 15A Input Plug: 2 x NEMA 5-15P Outlets: 10 - NEMA 5-15R

Sep 22, 2025

Cisco UCS XE9305 Chassis Spec Sheet

A 3RU, short-depth, multi-mountable chassis, the Cisco UCS XE9305 provides five front facing slots that can accommodate modules (nodes) that are easy to service and adaptable to deliver a range of ...

Jul 09, 2026

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

One rack unit equals 1.75 inches (44.45 mm). This means a 2U server is 3.5 inches tall, a 4U device is 7 inches tall, and so on. The “U” standard makes it easy to calculate how many pieces ...

Jul 18, 2026

What is U Height: Rack Units Explained

What Is a Rack Unit? A rack unit, abbreviated as U (or RU), is a standardized unit of measurement used to describe the vertical space occupied by equipment in a server rack. 1 Rack ...

Contact Us

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