

What are the standard dimensions of a 1u chassis

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).

Height

The vertical height of a 1U chassis is 1.75 inches (44.45 mm) according to the EIA-310 and IEC 60297 standards . In practice, front panels are often slightly shorter, around 1.72–1.74 inches (43.66–44.2 mm), to allow clearance between adjacent equipment and prevent binding during installation . The formula for calculating the height of a panel is $h = 1.75 \times n - 0.031$ inches, where n is the number of rack units .

Width

The standard width for a 1U chassis is 19 inches (482.6 mm), which is the common width for most server and network racks . Some specialized racks may use 23-inch widths, but 19 inches is the global standard for IT and telecom equipment.

Depth

While the height and width are standardized, the depth of a 1U chassis can vary, typically ranging from 17 to 21 inches (432–533 mm) depending on the manufacturer and intended use . It is important to verify the usable depth of the rack to ensure pr...

Article Content

Apr 07, 2026

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

One rack unit (1U) is 1.75" (44.45 mm) of vertical space, or typically the equivalent of three rack hole spaces tall. One of the first

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1U vs 2U Servers Explained – Rack Mount Guide 2025

What Does 1U or 2U Mean? Definition of Rack Unit (U) A rack unit (short for "U") equals 1.75 inches, or about the

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What is "U" height? Rack Units explained

Dimensions of a rack unit Illustration of rack unit spacing Though rack units are spaced out evenly, measurements of

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Server Rack Size Guide: Choosing the Right Rack for

Understanding their dimensions and specifications is crucial for selecting the right rack for

Oct 14, 2025

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

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What are rack unit (U) measurements in data center

The width and depth of standard data center racks slightly vary by manufacturer, but the industry standard

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Rack unit

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

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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,

May 13, 2026

1U, 2U, 3U, how much do you know about the size of server chassis ...

In a rack mount chassis the number of full 1U devices generally does not exceed 16, the full 2U devices generally do

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What are 1U, 2U, and 4U in Servers?

U is the height of the server chassis. 1U is equal to 4.45 cm and 3U is 3×4.5 cm. U (abbreviation for unit) is a unit that

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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

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

You'll get the precise, standardized physical dimensions of a 1U rack unit — 1.75 inches (44.45 mm) in height and 19

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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,

Nov 16, 2025

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

Common Misconceptions About 1U Dimensions Misconception #1: “All 1U servers fit any 19-inch rack.” Reality: They

Sep 15, 2025

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

A “Rack Unit” (U) is a standard height measure for mounting equipment in a server rack. One U = 1.75 in (44.45 mm).

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1U Rack Size Explained: The Essential Guide to 1U Rack Size and Its ...

Compatibility: designed to fit standard 19" rack rails and enclosures that are EIA-310 compliant. Standard

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1U, 2U, 3U, how much do you know about the size of server chassis ...

Among the rack server sizes, the common ones are 1U servers case, 2U servers case, and 4U servers case. The

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1U Server Chassis Dimensions: A Comprehensive Guide for Tech ...

The 1U server chassis dimensions are critical for proper rack installation and space optimization. This guide explains the standard

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Server Racks and Their Sizes

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

Sep 04, 2025

1U/2U/4U (Rack Unit) – Definition & Detailed Explanation

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

Jul 28, 2025

What Are Server Rack Sizes and Why Do They Matter?

What Are Server Rack Sizes? Three main dimensions define server rack sizes: Height

Sep 18, 2025

19-inch rack

Each module has a front panel that is 19 inches (482.6 mm) wide. The 19 inch dimension includes the edges or ears that protrude

Jan 28, 2026

Enterprise Core Systems Engineering Reference Manual: 1U

CORE INTERNAL TOPOLOGY The mechanical architecture of the 1U chassis enforces a strict height envelope of 44.45 mm (1.75

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1U Technical Specifications

Mechanical Specifications The mechanical specifications are derived from the Eurorack mechanical specifications set by Doepfer.

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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** –

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What Is 1U Server Rack Size? Exact Dimensions in Inches & mm

Width includes ears — not chassis: The “19-inch” specification refers to the distance between the inner edges of

Sep 29, 2025

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

Decoding Rack Units: Your Essential Guide to Understanding 1U, 2U, and Beyond 1U, 2U, 18U, 42U: What Do

Apr 23, 2026

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.

Mar 04, 2026

What are the Standard Server Rack Dimensions?

When considering the standard server rack size, you should keep in mind the following information about

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