

How many meters is 1U of network server rack



Overview

A Rack Unit (U or RU) is the standard height measurement used for mounting equipment in server racks. 5 inches tall, a 4U device is 7 inches tall, and so on. Important: U describes height only, but a server's real "capabilities" are also determined by chassis depth, internal layout, airflow, rails, power, and expansion (PCIe/risers, NVMe). A 1U server rack unit (often written as 1U, 1 RU, or rack unit) is not a standalone product—it's a standardized vertical measurement used exclusively within the context of 19-inch rack systems. This unit governs how. Most professional server racks follow the EIA-310 standard, which defines: These standards make it possible for any 19-inch compatible device to fit securely within the rack, regardless of brand. This article explains definition, planning, installation tips, and trends. The Eurocard specifies a standard rack unit as the unit of height; it also defines a similar unit.



Article Content

Jun 29, 2026

RACK UNIT CONVERSION TABLE

1U 2U 3U 4U 5U 6U 7U 8U 9U 10U 11U 12U 13U 14U 15U 16U 17U 18U 19U 20U 21U
22U 23U 24U 25U 26U 27U 28U 29U 30U 31U 32U 33U 34U 35U 1.75" 3.5" 5.25" 7"
8.75" 10.5" 12.25" 14" 15.75" ...

Feb 02, 2026

Understanding 1U, 2U, ... 18U, 42U: What They Mean in ...

When designing a server rack, the total available height is divided by the height of a single U (1.75 inches) to determine how many U's can fit into the rack. For ...

May 21, 2026

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.

Apr 23, 2026

Understanding Rack Units (U) in Server Racks [May 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). This article explains definition, planning, installation tips, and trends.

Aug 13, 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 ...

Jan 07, 2026

Understanding 1U, 2U, ... 18U, 42U: What They Mean in Network Server ...

When designing a server rack, the total available height is divided by the height of a single U (1.75 inches) to determine how many U's can fit into the rack. For example, a 42U rack provides 42 x 1.75 ...

Mar 01, 2026

Rack Units (RU): Sizes, Standards & Uses 2026

One rack unit (1U) equals exactly 1.75 inches or 44.45 millimeters in height. So, if you're installing a 2U server, it will take up 3.5 inches (88.9 mm) of vertical space in your rack.

Jan 14, 2026

Server Rack Sizes: The Complete Guide to Standard, Custom, and ...

Rack Units Explained: The Foundation of Server Rack Sizes. The fundamental measurement of rack height is the rack unit (U), where: 1U = 1.75 inches (44.45 mm) in height. ...

Apr 29, 2026

19-Inch Rack Size and Dimensions Explained: The Complete Guide to ...

Rack dimensions are based on the concept of the rack unit (U), where 1U equals 1.75 inches (44.45 mm) in height. Devices such as a 1U server, 2U storage array, or 4U industrial PC can be stacked ...

Jun 27, 2026

What is U Height: Rack Units Explained

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 Unit (1U) = 1.75 inches ...

Mar 20, 2026

Server Rack Sizes: The Complete Guide to Standard, ...

Rack Units Explained: The Foundation of Server Rack Sizes. The fundamental measurement of rack height is the rack unit (U), where: 1U = 1.75 ...

May 11, 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 ...

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

This document is for informational purposes only. Specifications subject to change without notice.

