

How many centimeters is one U in a 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. The total height of a rack is calculated by multiplying the number of U (rack units) by 1. This article explains definition, planning, installation tips, and trends. For example, a typical full-size rack cage is 42U high, while equipment is typically 1U, 2U, 3U, or 4U high. 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). The unit calculator below can convert rack U's into cm, inches and feet, which makes it a very useful tool for any installer or musician who needs to know exactly what equipment to buy when building a 19 inch rack. Scroll down for a complete table of rack U-to-inch/feet/cm values.

Article Content

Server Rack Sizes & Dimensions Guide 2026

The most common server rack size is 42U, 19-inch width, with 1000 mm depth. This configuration fits most enterprise servers and networking equipment while leaving room for cable ...

Rack Unit (U): Size, Height & Standard Rack Mount Dimensions ...

Standard Rack Mount Dimensions and Structure Most rack-mounted equipment is designed to fit in a 19-inch wide rack — this is a global standard. Vertically, the height is measured in ...

Rack Unit Converter: How To Convert Rack “U” Height

A rack server (such as the HPE Proliant DL120 Gen 9) may be specified as 1U, but the actual height is 1.69”. If the height does not exceed 1.75”, then the server is still considered 1U.

1U Rack U Rackmount Measurements | Comms ...

Key Takeaways The “U” Definition: A “U” is the universal unit of measurement for vertical space in server racks. Exact Dimensions: 1U = 1.75 inches or 4.445 cm. ...

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 ...

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.

Rack unit

A typical full-size rack is 42U, [] which means it holds just over 6 feet (180 cm) of equipment, and a typical "half-height" rack is 18U-22U, which is around 3 feet (91 cm) high.

What Are Server Rack U Sizes? A Practical Guide to Rack Unit ...

You'll instantly know how tall your server rack needs to be—and whether your gear will fit—once you understand that 1U = 1.75 inches (44.45 mm), and standard full-height racks are 42U ...

1U Rack U Rackmount Measurements | Comms Express | Comms ...

Key Takeaways The “U” Definition: A “U” is the universal unit of measurement for vertical space in server racks. Exact Dimensions: 1U = 1.75 inches or 4.445 cm. Standardization: All 19-inch rack ...

Rack Unit Height Calculator: Convert Rack Units (U) to Inches & Centimeters

In summary, a Rack Unit Height Calculator is a vital resource for IT specialists, network technicians, and AV setup teams. By inputting the number of rack units (U), the tool quickly provides ...

Rack Unit Calculator | Penn Elcom

Measure out your size requirements with this handy rack unit converter tool, turning inches, feet and centimetres into rack units.

Rack unit

A typical full-size rack is 42U, which means it holds just over 6 feet (180 cm) of equipment, and a typical "half-height" rack is 18U-22U, which is around 3 feet (91 cm) high. The mounting-hole distance (as shown to the right) differs for 19-inch racks and 23-inch racks: 19-inch racks use uneven spacings (as shown to the right) while 23-inch ...

Rack Unit Height Calculator: Convert Rack Units (U) to ...

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