

How many holes are in a standard network cabinet 1U



Overview

1U is defined as the height of three consecutive holes built into the rack, to which the hardware can be secured. The holes could be round or square or threaded – the size of each hole, and the gap between them, is standardized across companies by the rack unit. For example, a typical full-size rack cage is 42U high, while equipment is typically 1U, 2U, 3U, or 4U high. The rack unit size is based on a standard rack specification as defined in EIA -310. 66 millimeters in height rather than the full 1. This article explains definition, planning, installation tips, and trends. 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).
1 Rack Unit (1U) = 1.

Article Content

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 criteria to consider when purchasing a rack is how many RUs your

19-inch rack

19-inch rack The picture shows a lot of outboard gear built into the cabinets, which completely follows the 19-inch rack standard. A full-height rack cabinet A 19-inch

Rack Rail Hole Spacing Explained

Standard 19-inch racks use a specific hole pattern on the mounting rails. Holes are grouped in sets of three, with each group representing one Rack Unit, commonly

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

Hole Pattern and Spacing: Each rack unit (U) has a 3-hole pattern, evenly spaced along the rails. This standard design makes it easy to line up and mount equipment from any brand safely

What is 1U in a Cabinet? The Ultimate Guide to Rack Units

The vertical mounting rails of a server cabinet are perforated with holes used to secure equipment via cage nuts or screws. The 1U increment is defined by a specific repeating pattern of

How Many U Do You Need? | Rack Unit Sizes | Redentric

The more U you require, the bigger server space you'll need. The start of this rack-unit calculation is very simple, since each server you have should be 1U tall; so

Cabinet U Space Explained: From 6U to 48U

Every single item of hardware, be it a server or switch, has its specific U size designed for it—for instance, 1U, 2U, or even larger. A 1U device will require a

Understanding server rack size

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

In today's data centers, you'll commonly encounter configurations such as 1U, 2U, 4U, 18U, and even 42U racks. A 1U server takes up 1.75 inches of vertical space,

Contact Us

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