

1U Standard Chassis 2U Exit



Overview

For designs that are 1U and 2U high, this series of small rack mount chassis is the practical solution. They mount to standard 19-inch racks. Optional chassis covers are available. 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). This quick, practical guide compares 1U/2U/3U/4U form factors with real-world uses, then shows where IStoneCase fits when you need a server rack pc case, server pc case, computer case server, or atx server case —plus rails and customization. Rackmount server cases come in different heights, most commonly 1U, 2U, 3U, and 4U. It changes how many drives you can install, what cooling options you can use, and whether you have room for expansion cards or larger power supplies. A compact. A rack unit (abbreviated U or RU) is a unit of measure defined as 1 3/4 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. Explore the four main sizes of rack-mount enclosures—1U, 2U, 3U, and 4U—and find out which hardware housing solution best fits your business needs. Understand the pros, cons, and use cases for each enclosure model, from basic space-saving servers to massive enterprise hardware arrays.



Article Content

What are rack unit (U) measurements in data center servers?

The width and depth of standard data center racks slightly vary by manufacturer, but the industry standard is 19 inches wide and 36 inches deep. Servers come in sizes of: 1U, 2U, and 4U. While

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 designed to be mounted in a standard 19-inch server rack. These

Rack Server Sizing Guide: 1U vs 2U vs 4U and Which to Pick

An intelligent combination of 1U edge/front-end nodes, 2U general-purpose compute, and 4U monster AI or storage keeps your data center lean, cool, and prepared to upgrade the next cycle.

1U vs. 2U. What Does the "U" Refer to When Buying a

Note: as this is a standard, these designations apply to other rack-mountable equipment, such as network switches, firewalls, or UPS units. Virtually all 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.

Understanding Rack Mount System Sizing

This unit has been defined by Electronic Industries Alliance (EIA) as the standard for sizing rack mount equipment. 1 Rack Unit or 1U is 1.75 inches (44.45 mm) high. Systems which are

What is 1U and 2U Server?

1U and 2U define rack-mounted equipment heights: 1U is 1.75 inches, 2U is 3.5 inches, ensuring compatibility, efficient rack space use, and IT scalability.

Server Rack Size Guide: Choosing the Right Rack for

Find the perfect server rack size for your data center. Understand rack units (1U, 2U, 4U), dimensions like 1.75 inches/44.45 mm, and available

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

Confused by 1U, 2U, 42U? Learn how rack units (U) work—exact height conversions, standard rack sizes, equipment fit planning, and why depth/width matter just as much.

Comparison of 1U, 2U, 3U, 4U, and 5U server chassis

Compare 1U, 2U, 3U, 4U, and 5U server chassis by size, capacity, cooling, and expansion to choose the best fit for your IT infrastructure and future growth.

Server Chassis / Cases for Rackmount, Tower & Workstation

Broadest range of server case chassis available in all form factors. Modular with hot-swappable components, supporting the latest motherboards for Intel® and AMD processors.

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.

1U vs 2U vs 3U vs 4U server cases: a practical guide

This quick, practical guide compares 1U/2U/3U/4U form factors with real-world uses, then shows where IStoneCase fits when you need a server rack pc case, server pc case, computer case

Server Racks and Their Sizes

While the width can only have two sizes (19 or 23 inches, the first one being the standard and most common), the height increases by a rate of 1.75 inches, and this quantity is called rack unit or just

Rack unit

The standard was adopted worldwide as IEC 60297 Mechanical structures for electronic equipment – Dimensions of mechanical structures of the 482.6 mm (19 in) series, and defines the sizes for rack,

Server Chassis Matrix. Search Chassis Models | Supermicro

Explore Supermicro's full range of rackmount, tower and workstation chassis. Configuration matrix for 1U, 2U, 4U and tower form factors with power supply.

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 not exceed 12, and the full 4U devices generally do not exceed 4 to 7.

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

Learn what 1U and 2U really mean in server racks. See how height affects cooling, layout, and maintenance — with custom rack cases from IFSTAR.

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

However, the scalability of a 1U server is not as good as that of a 2U server. A maximum of 4 hard drives can be inserted in 1U, and 8 in 2U. In

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

Aluminum Enclosure

Bud Industries offers five aluminum enclosure rack mount chassis sizes & three depths to meet any electronic equipment need. Each are easy to install & mount.

Server Chassis & Rackmount Cases | 1U, 2U, 4U

We offer a wide selection of 1U, 2U, and 4U rackmount cases, as well as tower server chassis from top brands like Rosewill, Supermicro, Chenbro, and

Choosing the Right Rackmount Server Case: 1U, 2U,

A compact 1U case may work well for dense deployments, while a 4U case may be better for GPUs, storage, and advanced cooling. In this guide,

What Are Server Rack Sizes and Why Do They Matter?

Rack Unit Measurements (1U, 2U, 3U, 4U) The rack unit (U) is the standard for measuring the height of both server racks and the equipment they

The Ultimate Guide to Rack-Mount Enclosures: 1U, 2U,

Learn about 1U, 2U, 3U, and 4U rack-mount enclosures, their pros, cons, and use cases to choose the perfect fit for your IT infrastructure needs.

How to choose the rackmount case for your workstation or server

Building a workstation in a rackmount chassis Building a rackmount workstation or server can be annoying and difficult. Rackmount chassis need to fit a certain size standard in order to be

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

2U Rackmount – A Versatile All-Rounder 2U chassis provide the “Sweet Spot” for many industrial applications. They offer significantly more breathing room than a 1U without taking up

Choosing the Right Server Case: 1U, 2U, 3U, and 4U for Your Server

How to choose the rackmount case for your server – This guide provides insights into fitting different server sizes into standard racks. What's the difference between 1U, 2U, 3U and 4U –

What is U Height: Rack Units Explained

Rack Units (U Height for 1U,2U,4U rack server) Historical Perspective on Rack Units
The concept of rack units is rooted in the EIA-310

Contact Us

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