

19-inch chassis size standard



AI Overview

The 19-inch chassis standard specifies a front panel width of 19 inches (482.6 mm) with height measured in rack units (U) of 1.75 inches each, ensuring compatibility across electronic equipment.

Overview A 19-inch chassis is a globally recognized standard for mounting electronic equipment in racks, cabinets, or enclosures. The 19-inch measurement refers to the width of the front panel, including the mounting flanges or ears that allow the chassis to be secured to the rack frame with screws or bolts. This standard ensures that equipment from different manufacturers can fit into the same rack, promoting interoperability and efficient space utilization.

Height and Rack Units The height of equipment in a 19-inch rack is measured in rack units (U), where 1U equals 1.75 inches (44.45 mm). Common chassis heights include 1U, 2U, 4U, and higher multiples, allowing devices such as servers, storage arrays, and industrial PCs to be stacked vertically within a single rack. Standard rack cabinets often have 42U or 48U vertical capacity, though taller racks are also used in data centers.

Depth and Materials While the width and height are standardized, rack depth is not fixed and typically ranges from 600 mm to 1200 mm (24–48 inches), depending on equipment size, cooling requirements, and cable management needs. Chassis are commonly made from steel for strength and EMC shielding or aluminium for lightweight construction and heat dissipation. Surface finishes like powder coating, anodizing, or nickel plating enhance durability and performance.

Applications and Customization 19-inch chassis are widely used in IT, telecommunications, industrial control, audiovisual, and scientific equipment. Customization options include cut-outs, cooling patterns, colors, and handles, allowing OEMs to tailor enclosures to specific operational or environmental requirements. The standard also supports accessories such as cable management arms, power distribution units, and airflow containment systems.

Historical Background The 19-inch standard originated with A...

Article Content

What is a 19 inch rack?

To meet the 19 inch EIA standard, a server chassis width will need to be less than 17.75 inches. Any larger than this and you will not be able to

Comprehensive Guide to 19-Inch Server Racks for

This guide is your gateway to mastering the fundamentals of 19-inch server racks, from their standard dimensions to the intricacies of installation.

Rack unit

The 19-inch rack format with rack units of 1.75 inches (44.45 mm) was established as a standard by AT&T around 1922 in order to reduce the space required for repeater and termination equipment in a

Commercial Truck Success Blog: Cab To Axle Quick

Use this quick guide to determine what body will fit with your next chassis. * List contains common cab to axle measurements of Ford, GM & Ram

The Secrets of a 19-Inch Server Rack Design

The standard dimensions for a server are its width (48.26cm = 19 inches) and height (multiples of 4.445cm). Because the width is 19 inches, the

What Is Standard 19 Inch Rack Size?

Without the outer covering of a standard tower rack, the 19-inch rack structure gives precise temperature control and makes installation, maintenance, and wire

How To Choose The Right 19 Inch Rack Mount Chassis

Features of a 19 inch rack mount enclosure: 19 inch server rack size: The 19 in rack enclosure standard size ensures compatibility with other

Rack Mount Dimensions: 19-Inch Standard Guide for Equipment

Complete guide to rack mount dimensions: 19-inch racks mounting standards for equipment. Expert metal chassis manufacturer insights for data centers.

What Is Standard 19 Inch Rack Size? – Yongu Case

What Do 19 Inches Denote In The Server Rack? Interestingly, the size of a server rack would not be utmost crucially measured at 19 inches. Ultimately, your line must align well with

19 Equipment Rack Dimensions: Standard U Sizes & Specs

Discover standard 19 equipment rack dimensions, including U sizes, width, depth, and EIA-310 compliance. Click to learn key specs for server racks, wall-mounted cabinets, and open frame

[A Definitive Guide to 19-Inch Server Rack Sizes | Everpure](#)

The standard width of a mountable server rack established by the Electronic Industries Alliance (EIA) is 19 inches. Technically, this 19-inch measurement refers to the width of the front panel of the

[Server Rack Sizes & Dimensions Guide 2026](#)

The 19-inch specification (EIA-310 standard) refers to the distance between the mounting rails, not the overall cabinet width. Most server racks

[The Complete Guide to 19-Inch Industrial Chassis:](#)

This guide gives you a clear, practical overview of 19-inch industrial chassis design, the differences between steel and aluminium, key finishing

[A Definitive Guide to 19-Inch Server Rack Sizes | Everpure](#)

19 inches is the standard width of a mountable server rack. In this guide, we'll cover everything you need to know about sizing rack servers.

[Why is the 19-inch rack 19 inches, or is it?](#)

Several of my former colleagues have been asking about the venerable 19-inch rack. Why is it 19 inches, and why has that dimension persisted as electronics has shrunk dramatically?

[1U Chassis -19 Inch Rack Mount](#)

1U chassis is one of the best selling case for 19inch rack mount chassis, we not only have 1U/2U/3U/4U server case, but can manufacture different sizes according to

[Rack specifications](#)

The rack or cabinet must meet the EIA Standard EIA-310-D for 19-inch racks. The front rack opening must be 451 mm wide + 0.75 mm (17.75 in. + 0.03 in.), and the rail-mounting holes must be 465 mm

[What Is a 19-Inch Rack? Full Guide for IT & AV Use](#)

Learn what a 19-inch rack is, key dimensions, types, use cases, and expert tips for choosing the right rack for IT, telecom, AV, and more.

[Rack Mounting FAQ](#)

ETSI rack vs. EIA-310 rack dimensions, CC-BY-SA, by Jahoe ETSI bracket An ETSI bracket is an adapter used to install EIA-310 (19-inch rack equipment), which is

[19-Inch Rack Size and Dimensions Explained: The Complete Guide to ...](#)

Discover the essential guide to 19-inch rack sizes and dimensions for servers and rackmount PCs. Learn about standards, specifications, and best practices today!

Server Rack Sizes: The Complete Guide to Standard,

Below is a comprehensive, fully detailed guide covering all standard server rack sizes, form factors, height considerations, depth classifications, and

The different dimensions of a 19 inch rack

A 19 inch profile is 19 inch wide. 19 inch is 482.6 mm. What are the different server rack sizes? As mentioned before, a server rack consists of different dimensions. It is possible that there is

What are EIA Standards? And Where Do They Come From?

EIA standards were written by the Electronic Industries Alliance to standardize features of 19" rack enclosures.

Server Rack Standard Dimensions, Depth Options & Selection

Server Rack Cabinet Sizes: Standard Dimensions, Depth Options, and Selection Guide
Learn standard server rack cabinet sizes including 42U height, 19-inch width, and depth options from

Understanding 19-inch Rack Standards (EIA-310)

A: The term Understanding 19-inch Rack Standards (EIA-310) refers to the EIA standard which has set the 19-inch rack format covering dimensions such as

Standard Pipe Sizes mm | Chart (NPS 1/8 to 48) -

Download Standard Pipe Sizes mm with full schedule chart. Easy NPS to mm conversion, wall thickness & dimensions table.

Standards of 19-Inch Rack: depth, width ↗ —

When designing and choosing 19-inch cabinets, it is important to consider 19U rack dimensions: height, width, and depth. The dimensions of a 19

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