19-inch chassis dimensions



Overview

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

Key Takeaways

A 19-inch chassis has a standardized width of 19 inches (482. 6 mm), with height measured in rack units (1U = 1. 75 inches) and variable depths typically ranging from 24 to 48 inches.

Standard Width and Height

The width of a 19-inch chassis is universally standardized at 19 inches (482. 6 mm), which includes the mounting ears used to secure the chassis to a rack frame. The height is measured in rack units (U), where 1U equals 1.

75 inches (44. 45 mm). Common chassis heights include 1U, 2U, 4U, and higher, depending on the number of components and cooling requirements.

Depth

Unlike width and height, depth is not fully standardized. Typical depths range from 600 mm (24 inches) to 1200 mm (48 inches), with common options being 600 mm, 800 mm, 1000 mm, and 1200 mm. Depth selection depends on equipment size, airflow, and cable management needs.

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Materials and Construction19-inch chassis are commonly made from steel for maximum strength and EMC shielding or aluminium for lightweight construction and better heat dissipation. Surface finishes such as powder coating, anodizing, or nickel plating enhance durability and corrosion resistance. Handles, ventilation, and front/side plates are designed to support industrial or server applications.

Customization

Many 19-inch chassis can be customized with cut-outs, color options, cooling patterns, and specialized mounting features to suit OEM or industrial requirements. This ensures compatibility with specific equipment while maintaining standard rack dimensions. Applications19-inch chassis are widely used in servers, network hardware, industrial control systems, power distribution units, and audiovisual equipment.

Their standardized dimensions allow interoperability across manufacturers and ease of installation in racks or cabinets. By adhering to these dimensions, organizations ensure efficient space utilization, scalable infrastructure, and compatibility with a wide range of rack-mounted equipment.

Article Content

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

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!

A Definitive Guide to 19-Inch Server Rack Sizes | Everpure

Technically, this 19-inch measurement refers to the width of the front panel of the mountable module that slides into the rack, while the actual server chassis width needs to be less than 17.75 inches to fit

Rack unit

Although it is called a 19-inch rack unit, the actual mounting dimensions of a 19-inch rack unit are 185⁄16 inches (18.313 in; 465.14 mm) wide, center to center.

Atlas Chassis

19" Chassis provided for the integration of non-standardised elements (coils, power supplies, measurement enclosures, etc.). Product that can withstand large loads. Design in zinc plated steel,

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19″ Atlas chassis

Dimensional characteristics Width: 19" standard Depths: 360, 460 and 563 mm Heights: 2U to 12U Load: 40 Kg Standards: IEA-310D, IEC-60297, DIN-41494

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.

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

4U 19 Inch Chassis for Rack Integration | TPS

Explore the TPS 4U 19 inch chassis for RFQ-ready rack integration, power supply systems, industrial electronics, and custom project support.

The Complete Guide to 19-Inch Industrial Chassis: Custom

Explore our complete guide to 19-inch industrial chassis. Discover durable, corrosion-resistant rack mount solutions in steel, aluminum, and custom finishes for your server, power supply,

Atlas Chassis

Atlas Chassis DIMENSIONAL CHARACTERISTICS Heights: 2U to 6U (or more depending on front) Width: 19" (chassis width 429 ext.) Depths: 360 / 460 mm

19" rack equipment dimensional data

19" rack equipment dimensional data as specified by BS5954 (1980) and IEC 297 (1975). Single and double gang electrical plate dimensions. Fibre installation and patching convention according to

Understanding 19-Inch Server Rack Sizes: A

Explore our comprehensive guide on 19-inch server rack sizes. Learn everything you need to know about rack space, mountable units, and optimizing

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.

Convert inches to cm

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Instant free online tool for inch to centimeter conversion or vice versa. The inch to centimeter conversion table and conversion steps are also listed. Also, explore tools to convert inch or

What is a 19 inch rack?

A 19 inch width is standard for servers and the racks that mount them. Learn how the EIA came to this conclusion and how it helps.

19" Rack PCs | InoNet

The housing width of 19 inches is a common size in the IT industry. These enclosures are often used in rack mounting, e.g. in data centres, to mount

19-Inch Rackmount Server Dimensions

19 inch Rack Dimensions - Free download as Word Doc (.doc / .docx), PDF File (.pdf), Text File (.txt) or read online for free. 1. The 1U, 2U, 3U, 4U, 5U, 6U and 7U refer to different sized

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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