

Standard width of a 19-inch chassis



AI Overview

The standard width of a 19-inch chassis is 19 inches (482.6 mm), including the mounting ears, with an internal mounting width of approximately 17.75 inches (450–490 mm) to fit standard racks.

Overview A 19-inch chassis is a globally standardized enclosure used for mounting electronic equipment such as servers, networking hardware, industrial controls, and audiovisual devices . The 19-inch measurement refers to the front panel width, including the protruding ears that allow the chassis to be secured to the rack frame with screws or bolts . The internal width between the rack rails is slightly narrower, typically 17.75 inches, ensuring that devices with handles or bezels fit properly .

Rack Unit Height The height of rack-mounted equipment is standardized in rack units (U), where 1U equals 1.75 inches (44.45 mm) . Common chassis heights include 1U, 2U, 4U, and larger, allowing vertical stacking of multiple devices within a single rack. Standard rack cabinets are often 42U or 48U tall, providing over six feet of vertical mounting space .

Depth Considerations Unlike width and height, rack depth is not fully standardized. Typical depths range from 600 mm (24 inches) to 1200 mm (47.2 inches), depending on cooling requirements, cable management, and the type of equipment . Industrial and server chassis may vary in depth to accommodate internal components, airflow, and service clearance.

Materials and Construction 19-inch chassis are commonly made from steel for strength and electromagnetic shielding or aluminum for lightweight construction and heat dissipation . Surface finishes such as powder coating, anodizing, or nickel plating enhance durability and performance. Customization options include cut-outs, handles, ventilation patterns, and color, especially for OEM applications .

Standards and Compatibility The 19-inch form factor is formalized in standards such as EIA-310 and IEC 60297, ensuring mechanical compatibility across manufacturers . The standard has been in use since the early 20th century, originat...

Article Content

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

A 19-inch rack is a standardized frame or enclosure for mounting electronic equipment modules. Common uses for these racks / enclosures include datacom, telecommunication,

Atlas Chassis

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

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

Rack Mounting FAQ

Comparable to 19-inch rack frame enclosures, a half-rack, 10-inch rack, or 10.5" rack only uses half the width of a standard 19" rack, thus offering a related modular

What Is a 19-Inch Rack? Full Guide for IT & AV Use

A 19-inch rack is a metal frame used to hold and organize electronic equipment like servers, switches, and audio gear. It's called "19-inch" because of

19 Inch Rack | Industrial Computer and Components from ICP IEI

19-inch rack enclosures provide a standardized way to securely mount and manage electronic components. With a width of 19 inches (approx. 482.6 mm) and standardized height units (U), they

Comprehensive Guide to 19-Inch Server Racks for

The 19-inch width standard allows for a uniform approach to mounting IT equipment, ensuring that devices from different manufacturers fit

What is a 19-inch rack?

This guide will describe what a 19-inch rack is, cover the history of the enclosure, and describe where it is most-often used.

Standard EIA Openings On 19" Racks | A & J Manufacturing Co.

Here are Standard EIA openings for 19 inch light duty, medium duty, and heavy duty racks offered by A & J Manufacturing Company.

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.

Standards of 19-Inch Rack: depth, width $\prec$ —

The dimensions of a 19-inch rack typically range from 600 mm to 800 mm in width. Understanding these 19 inch rack dimensions is essential as the

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

About 19" Standard Rack Mount Case You need to know

The 19-inch width standard is the international width standard. Therefore, as long as a normal cabinet can meet the installation of most 19-inch devices, the corresponding chassis.

The Complete Guide to 19-Inch Industrial Chassis:

The 19 inch chassis (482.6 mm width) ensures global compatibility across industries. Steel chassis offer maximum strength and EMC shielding,

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

19-Inch Rack Size and Dimensions Explained: The Complete Guide to ...

Originally defined by the EIA-310 standard, the rack specifies a front panel width of 19 inches (482.6 mm), allowing different hardware from various manufacturers to fit in the same enclosure.

The different dimensions of a 19 inch rack

What is 19 inch in mm? In order to show the dimensions of a server cabinet, it is important to know that a server cabinet or wall mount rack, regardless of its width, always consists of

Rack Requirements

Standard 19-inch four-post EIA rack, with mounting rails that conform to English universal hole spacing per section 1 of ANSI/EIA-310-D-1992. See the section entitled "Standard Open Rack Requirements."

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

Standards of 19-Inch Rack: depth, width $\prec$ —

Standard 19 Rack Dimensions When designing and choosing 19-inch cabinets, it is important to consider 19U rack dimensions: height, width, and

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

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

What You Need to Know About Standard Rack Mount

Understand standard rack mount dimensions—19-inch width, U height, and common depth ranges—and learn how to select the right rack size

19" Atlas chassis

ATLAS" chassis are made by ATOS and specially designed to allow the integration of non-standard components: - Batteries, power supplies, measurement

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

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.sphplantsales.co.za>

Email: info@sphplantsales.co.za

Phone: +27 64 827 3915

Address: Unit 9, Highveld Technopark, 43 Atlas Road, Johannesburg, 2196,
South Africa

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