

19-inch Standard Network Rack Specifications



Article Overview

A 19-inch rack has a standardized front panel width of 19 inches (482.6 mm) and uses rack units (U) of 1.75 inches (44.45 mm) for height measurement.

Overview

The 19-inch rack is a globally standardized frame used for mounting servers, networking equipment, telecommunications hardware, and audiovisual devices. The 19-inch width refers to the front panel of the equipment, including the mounting ears that attach to the rack frame, ensuring compatibility across different manufacturers .

Height

Rack height is measured in rack units (U), where 1U = 1.75 inches (44.45 mm). Common rack heights include:

- 42U – the most widely used standard in data centers
- 45U and 48U – used in modern high-density environments
- Smaller racks like 12U–24U – suitable for branch offices, labs, or limited space installations

Depth

Rack depth is not standardized and varies depending on equipment and cooling req...

Article Content

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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

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19-Inch Rack Standards Overview | PDF | Electronics | Equipment

The Standard Rack 19" has been in use for over a century, originally for telecommunication devices and now for various equipment

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Rack unit

Definition The rack unit size is based on a standard rack specification as defined in EIA -310. The Eurocard specifies a standard rack

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19 Inch Rack Enclosure: Sizes, Types & Selection Guide

Here is a brief guide to size specifications of EIA-310 standard, types of enclosures, material compromises and a practical method to

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Server Rack Sizes & Dimensions Guide 2026

Common server rack sizes are 19-inch width, heights like 42U or 48U, and depths from ~24" to 48". Choose size

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Standard data center server rack dimensions

Choosing the right rack depth is crucial for cooling efficiency in the server room. The 42U standard rack

Jul 07, 2026

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

Apr 20, 2026

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

Apr 22, 2026

Understanding Global Rack Standards: ANSI/EIA RS-310-D, IEC

Three key specifications — ANSI/EIA RS-310-D, IEC 60297-2, and DIN 41494 — have defined the foundation of 19

Dec 19, 2025

Comprehensive Guide to 19-Inch Server Racks for Beginners

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

Nov 10, 2025

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

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

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Order 19-inch data racks online

19-inch data racks: the universal standard for data cabinets. In the EFB-Elektronik online shop, you will find a comprehensive range

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Server Rack Buying Guide | Eaton

Server Rack Basics What is a server rack? Server racks are open frames or cabinets designed for mounting, organizing and

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19 inch Rack | Essential Guide to the 19-Inch Data Rack Standard in ...

The 19-inch rack supports hardware configurations in data centres and other facilities. IT equipment comes in standard dimensions.

Sep 29, 2025

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.

Mar 28, 2026

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

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19 inch Rack | Essential Guide to the 19-Inch Data Rack Standard in ...

The 19 inch rack standard is widely used industry-wide today for data center and networking equipment. It ensures components from

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The different dimensions of a 19 inch rack

The distance from the profile remains the same, namely 19 inches. 800mm wide racks provides more freedom of

Nov 03, 2025

Data Center Rack Standards

Data center rack standards are widely used throughout the telecommunication, computing, audio, entertainment and other industries.

Dec 14, 2025

Key Considerations for Selecting 19-Inch Server Racks

When it comes to 19-inch server racks, the term “standard” can be a little misleading. Yes, a 19-inch rack is an industry standard, as

Dec 08, 2025

19-Inch Rack Dimensions Overview

The document discusses industry standard specifications for 19-inch racks, including vertical hole spacing with a repeating pattern of

Jun 18, 2026

Understanding 19-inch Rack Standards (EIA-310)

This document provides insights into the 19-inch rack standard established by the Electronic Industry

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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

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19-inch rack

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

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19-Inch Racks in Server Cabinets & Enclosures

In modern data centers and communication infrastructures, the 19-inch rack is a standardized mounting structure widely used in

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Standard Rack Size

This standard forms the foundation of most rack designs today. Whether it is rack servers from Dell, HPE, and Lenovo, or network

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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

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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,

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19 Inch Rack

Explore 19 inch rack specifications, cabinet designs, and mounting standards to find the right server

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Understanding Global Rack Standards: ANSI/EIA RS-310-D, IEC

Introduction: Why Rack Standards Matter Standardization in rackmount systems is essential for ensuring equipment

Contact Us

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