

What are the standard dimensions of a 19-inch 1U chassis



Overview

The design of 19-inch racks adheres to international standards, with a width of 19 inches (482.6 mm) and a height measured in “U” units, where 1U equals 1. This standardized design ensures compatibility and interchangeability of equipment from different manufacturers. Originally defined by the EIA-310 standard, the rack specifies a front panel width of 19 inches (482.6 mm). This compatibility has made rackmount systems the backbone of data centers, telecommunications rooms. A 19-inch rack is a standardized frame or enclosure for mounting multiple electronic equipment modules. A consistent hole pattern and spacing for rails, shelves, and front ears line up correctly. What is a Server Rack?

A server rack is a type of frame within which you can mount server equipment, including routers, switches, boards, and rack servers (servers designed to be).



Article Content

19" Rack Mount Enclosures

A 19-inch rack is a standardized frame or enclosure for mounting multiple electronic equipment modules. Each module has a front panel that is 19 inches (482.6 mm) wide.

19-inch rack

OverviewOverview and historyEquipment mountingCoolingSpecificationsRelated standardsGallery

Equipment designed to be placed in a rack is typically described as rack-mount, rack-mount instrument, a rack-mounted system, a rack-mount chassis, subrack, rack cabinet, rack-mountable, or occasionally simply shelf. The height of the electronic modules is also standardized as multiples of 1.75 inches (44.45 mm) or one rack unit or U (less commonly RU). The industry-standard rack cabinet is 42U tall; however, ma...

What Is a 1U Server Rack Size? Exact Dimensions & Mounting Guide

A 1U server rack measures exactly 1.75 inches (44.45 mm) in height and fits standard 19-inch racks. Learn why equipment must stay *under* that limit, how depth varies, and how to verify ...

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While the Rack Unit standardizes height, it is inseparable from the standard width of the enclosure: the 19-inch rack. The 19-inch (482.6 mm) dimension refers to the width of the equipment's ...

A Definitive Guide to 19-Inch Server Rack Sizes

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 ...

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.

19-inch rack

A standard 19-inch server rack cabinet is typically 42u in height, 600 millimetres (24 in) wide, and 36 inches (914.40 mm) deep. This comprises a volume of 974 L, or just under a cubic meter.

What You Need to Know About Standard Rack Mount Dimensions

In practice, that standard means three things: A 19-inch mounting width for front panels and mounting ears. Vertical spacing measured in rack units (U), where 1U = 1.75 inches (44.45 mm). ...

19-Inch Racks in Server Cabinets and Outdoor Enclosures

The design of 19-inch racks adheres to international standards, with a width of 19 inches (482.6 mm) and a height measured in “U” units, where 1U equals 1.75 inches (44.45 mm).

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

Its standardized rack size and dimensions — 19 inches wide, 1.75-inch rack unit (U) high, and 600–1200 mm deep —provide the interoperability required for modern IT, telecommunications, and industrial ...

19" Rack Cabinet Dimensions | 19-Inch Standard (U, Depth, Width)

A 19" cabinet is standardized to fit 19-inch wide equipment (482.6 mm). Devices are mounted on front and rear 19" profile rails and measured in U (1U = 44.45 mm).

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