

# How many holes are needed in a 19-inch 3U chassis



## Overview

Standard 19-inch racks use a specific hole pattern on the mounting rails. Holes are grouped in sets of three, with each group representing one Rack Unit, commonly called 1U. Each module has a front panel that is 19 inches (482.6 mm). The 19 inch dimension includes the edges or ears that protrude from each side of the equipment, allowing the module to be fastened. The EIA-310 standard has served as the foundation for 19-inch equipment racks for over five decades. It defines the mechanical specifications for what is commonly referred to as a “standard rack,” including the Rack Unit height, vertical and horizontal hole spacing, rack opening dimensions, and. The 19 inch chassis (482.6 mm width) ensures global compatibility across industries. Steel chassis offer maximum strength and EMC shielding, ideal for industrial environments. Surface finishes like powder coating. A 19-inch case is the standard size for rack-mounted equipment in data centers and industrial settings, offering full compatibility with EIA-310-D and IEC 60297 rack systems. 75 inches instead of 2 inches.



## Article Content

Oct 18, 2025

### Key Considerations for Choosing 3U Chassis Dimensions

Navigating the world of 3U chassis dimensions can be particularly daunting, especially with the myriad of options available in the market today. This article aims to demystify the process by outlining the key

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### Choosing the Right Rackmount Server Case: 1U, 2U,

Understand how 1U, 2U, 3U, and 4U rackmount server units vary in order to optimize your server requirements to select the most appropriate piece of

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### Rack unit

The mounting-hole distance (as shown to the right) differs for 19-inch racks and 23-inch racks: 19-inch racks use uneven spacings (as shown to the right) while 23

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### 19-inch rack

OverviewOverview and historyEquipment mountingCoolingSpecificationsRelated standardsGallery

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. The 19 inch dimension includes the edges or ears that protrude from each side of the equipment, allowing the module to be fastened to the rack frame with screws or bolts. Common uses include computer servers, telecommunications equipment and networking hardware

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### 19-inch rack

The 19-inch (482.6 mm) standard rack arrangement is widely used throughout the telecommunications, computing, audio, video, entertainment and other industries,

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

And Where Do They Come From? A 19-inch rack is a standardized frame or enclosure for mounting electronic equipment modules. Common uses for

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Rack Unit Calculator | Penn Elcom

One U is 1.75 inches (44.45mm); the standard rack, at 19 inches, is 42U. Rack servers and other hardware designed to be rack-mounted are manufactured in multiples of 1.75 inches and specified in

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19-Inch Rack Dimensions Overview | PDF

The document discusses industry standard specifications for 19-inch racks, including vertical hole spacing with a repeating pattern of 1/2-5/8-5/8 inches, horizontal

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1U vs. 2U vs. 3U: Rack Units Explained | EDN

What does 1U mean? Many rack-mounted power systems and power supplies are specified as being 1U, 2U, 3U, etc. What does this mean? For

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Rack Measurements – Tech On The Field

Rack Specs Vertical hole spacing on the racks is defined as a repeating pattern of holes in the rails of within one rack unit of 1.75". The hole spacing alternates at:

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3U-Leading Rackmount Chassis Server case 1U, 2U, 3U & 4U | Rackmount PC ...

Motherboard Size ATX 12x9.6 / Micro-ATX 9.6x9.6 / Mini-ITX 6.7x6.7 (When using an ATX motherboard, part of it will be positioned under

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Rack Mount Dimensions: 19-Inch Standard Guide for Equipment

That 0.031-inch gap ensures equipment can be installed and removed without binding on adjacent components. In millimeters, this becomes an essential 0.794mm spacing—critical for manufacturing

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## 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

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## 7 Key Features of a 19 Inch 3U Subrack You Should Know

7. Cost-Effectiveness Last but not least, a 19 inch 3U subrack presents a cost-effective solution for many organizations. Given its modular features and durability, customers can save on

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## Rack Rail Hole Spacing Explained

The 19-inch rack format has demonstrated remarkable longevity, remaining essentially unchanged while the technology it houses has evolved dramatically.

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## Mastering Space: The Essential Guide to 3U Chassis Dimensions for ...

When integrating various components into a 3U chassis, understanding the specific measurements of each part is essential. Aligning power supplies, hard drives, and motherboards

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## 3U-Leading Rackmount Chassis Server case 1U, 2U, 3U & 4U | Rackmount PC ...

Rackmount chassis Server case 19 inch ATX microATX 3U N400D Drives External Bay: 3x5.25" Internal Bay: 4x3.5 Motherboard Size

May 09, 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 standards, specifications, and best practices today!

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## The Complete Guide to 19-Inch Industrial Chassis: Custom Enclosures for ...

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

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## 19-Inch Server Rack Enclosure Laser Cut DXF Bundle

This 19-Inch Server Rack Enclosure Laser Cut template is a critical infrastructure asset designed to save IT professionals, audio engineers, and data centers thousands of dollars. Instead of

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Everything You Need to Know About Rack Units: From

Explore everything about rack units (U) and server space, from essential measurements to a handy rack unit converter. Determine how much

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Rack Rail Hole Spacing Explained

Standard 19-inch racks use a specific hole pattern on the mounting rails. Holes are grouped in sets of three, with each group representing one Rack Unit, commonly

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Everything You Need to Know About the 19-inch 300mm Depth 3U

Its dimensions are calculated down to the millimeter: the front panel includes reinforced steel mounting flanges spaced exactly 19 inches apart, with pre-drilled holes matching the 10-32 UNC thread pattern

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What does 1U, 2U, 3U Mean? Rack Units Explained

What does 1U actually mean? We see 1U often mentioned in technical articles, especially in the context of data centers. 2U, 3U, etc.

## Contact Us

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