

Server and network rack dimensions in data centers



Summary of Content

Standard server racks in data centers are typically 42U high, 19 inches wide, and 36–48 inches deep, with 1U equaling 1.75 inches in height.

Rack Units and Height

Server racks use rack units (U) to measure vertical space, where 1U = 1.75 inches (44.45 mm). Common rack heights include 42U, 45U, and 48U, with 42U (73.5 inches) being the most widely deployed in data centers due to its balance of equipment density and manageability. Smaller racks, such as 24U or 36U, are used in branch offices or limited-space environments, while taller racks are preferred in hyperscale data centers for maximum equipment capacity.

Width

The standard mounting width for IT equipment is 19 inches, which ensures compatibility across servers, switches, and other devices. Some specialized telecom or networking racks may use 23–24 inches, but 19 inches remains the global standard.

Depth

Rack depth is critical for fitting modern servers, storage arrays, and GPU systems. Common depths range from 27 to 42 inches, with 42 inches being typical for most data center servers. Deeper racks may be required for high-performance or custom equipment, while shallower racks are suitable for switches or smaller devices.

Rack Types

Article Content

A Free Guide to Data Center Racks

Learn how to choose data center racks, their technical features, and maintenance considerations for

Rack Mounting FAQ

Guide on all things related to data center operations, deployment, on rack mounting systems and data center technology, e.g. rack

A guide to data centre track sizes

Understanding server rack size Server rack size, also known as cabinet size, refers to the overall dimensions of the

Data Center Design Overview: Cabinet Layout, Rack Design, & More

We explore server rack sizes in detail in another blog. For this exercise, we'll assume standard rack dimensions of 24

Server Rack Sizes: The Complete Guide to Standard,

Below is a comprehensive, fully detailed guide covering all standard server rack sizes, form

Server Rack Sizes: The Complete Guide to Standard, Custom, and ...

Understanding server rack sizes is essential for data centers, enterprise IT teams, and businesses deploying high

Standard data center server rack dimensions

Buy a rack that has room for future expansion When selecting data center rack size and server rack

A Comprehensive Guide to Rack Space Measurements

Wherein we provide everything you need to know about rack space measurements when setting up your server

Data Center Server Rack Sizing Guide

Data center server rack guide with tips on sizes, types, and installation for efficient IT infrastructure setups.

Server Rack Size Guide: Choosing the Right Rack for

This guide dives into the essentials of server rack sizes, their impact on data center layouts,

What Size Server Rack Do I Need? Rack Calculator and Standard Sizes

Common Server Rack Heights 6U & ndash; 12U: Small networks, wall-mount racks
18U & ndash; 27U: Network

Racks and Cabinets in a data center

The width and depth of standard data center racks will slightly vary by manufacturer, but the industry standard is 19

Data Centre Racks: Understanding rack sizes and sizing units

The choice of server and network racks is pivotal in data centres because it impacts the efficiency, security,

Server Rack Sizes & Dimensions Explained: The Ultimate Guide to

Discover essential information on server rack sizes and dimensions, including heights, widths, and depths, in our ultimate guide.

Server Rack Sizes & Dimensions Guide 2026

Server Rack Sizes & Dimensions Guide Common server rack sizes are 19-inch width,

Data Center Server Rack Guide (2026): Types, Design, Airflow, Power

This guide covers rack architecture, cooling integration, power redundancy, cable routing, and deployment scenarios.

Data Center Server Rack Guide (2026): Types, Design, Airflow, Power

Learn everything about data center server racks—definitions, rack types, airflow design, power integration, cable

Server Rack Cabinets Sizes: Depth, Width, & Height Explained

Get a comprehensive guide on server rack cabinet sizes and dimensions. Understand the depth, width, and height

Server Rack Sizes & Dimensions: Depth, Width, & Height

Server rack size and dimensions are important considerations for implementation. We explore standard server rack

A Guide to Server Rack Sizes for Data Centers

This guide deciphers the best server rack sizes for optimal data center efficiency. Learn why it matters, what options

Data Center Server Rack Size: A Beginner's Guide

This guide will give you an overview of various server rack dimensions, how to select an

Standard Rack Size

We also provide information on network rack sizes, data rack dimensions, server rack dimensions, and standard server rack sizes.

Server Rack Sizes Explained

Standard Server Rack Sizes While 42U racks are the most common in enterprise environments, various other sizes

What Is a Server Rack: Specifications, Usage, History, and More

A server rack is a standardized, vertical frame designed to securely house and organize multiple servers, networking equipment, and

Server Rack Sizes & Dimensions: Depth, Width, & Height

A server rack with an outside depth of 48 inches (1215mm) fits within two-floor tiles yet provides enough space for

Standard Rack Specifications, Dimensions, Layout Design

Data Center Planning Essentials: Understanding Standard Rack Specifications, Server Rack Dimensions, and Layout Design When

Server Rack Sizes & Dimensions Guide 2026

Server rack sizes infographic Choosing the right server rack size affects equipment fit, airflow, cable management,

Data Center Racks, Cabinets, and Cages: An In-Depth

Inside a data center, a labyrinth of servers and high-tech networking gear are arranged in specialized

Server Rack Sizes: Key Dimensions Affecting Deployment and ...

Server racks are often treated as standardized components, but dimensional details still matter. Small mismatches in

Data Center Server Rack: The Ultimate Guide

How to size, lay out, and cool data center server racks the right way. A practical guide to rack units, power density,

Server and Network Cabinets | Legrand

Legrand Server and Network Cabinets Legrand is a global provider of data center server and network cabinets, providing fully

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