

Backbone network uses a 19-inch chassis with a depth of 1000mm

Article Overview

A 19-inch rack with a 1000mm depth is a standard, robust solution for mounting backbone network equipment, offering compatibility, flexibility, and sufficient space for cabling and airflow.

Standard Dimensions and Compatibility

A 19-inch rack refers to the front panel width of 19 inches (482.6 mm), which is standardized under the EIA-310 specification, allowing equipment from different manufacturers to fit in the same enclosure (). The height of devices is measured in rack units (U), where 1U equals 1.75 inches (44.45 mm). Common rack heights range from 12U to 48U, depending on the deployment needs ().

Depth Considerations

The 1000mm depth provides ample space for larger networking devices, servers, and storage units, as well as for proper cable management and airflow (). Depths in 19-inch racks typically range from 600mm to 1200mm, and selecting a deeper rack is advantageous for backbone networks where high-density cabling and larger chassis are common ().

Structural and Functional Features

Modern 19-inch racks with 1000mm depth often include:

- o Front and rear vertical mounting rails for flexible installation of equipment ().
- o Cable management ports and optional roller feet for maneuverability ().
- o High load capacity, often supporting up to 250 kg of evenly distributed equipment ().
- o Open or enclosed designs, allowing accessibility from all sides and facilitating cooling and maintenance ().

Practical Benefits for Backbone Networks

Using a 19-inch, 1000mm deep rack ensures:

- o Standardized mounting for multi-vendor network devices.
 - o Sufficient space for structured cabling, PDUs, and airflow management.
 - o Scalability, allowing future expansion without replacing the rack.
 - o Ease of maintenance, as deeper racks reduce cable congestion and improve access to rear connections ().
- In summary, a 19-inch rack with 1000mm depth is ideal for backbone network deployments, providing a standardized, flexible, and robust framework that accommodates high-density equipment, efficient cable

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management, and proper cooling.

Learn what a 19-inch rack is, key dimensions, types, use cases, and expert tips for choosing

The standard 19-inch rack format has become the industry standard due to its ability to provide a consistent and

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

7.2 universal mounting rails support installation of industry standard 19" rack mount server, network and electronic components,

RackMatic MobiRack 19" rack cabinet, 24U high, with external dimensions of 600 mm (width) x 1000 mm

Open Rack Frame 12U & 21U - Server Rack - Cabinet - Cab - accessible from all sides - cable

Backbone networks provide the fundamental networking layout and infrastructure upon which all network players (operators, service

Rack-mounted equipment has become the backbone of IT infrastructure, offering a reliable

Discover Server Racks 1000mm & 1200mm Deep, offering versatility in 9U-47U sizes. Improve your data

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

Find out the exact inside dimensions of our wall and patch racks and choose the appropriate size for your network!

A backbone network is a high-speed central connection or network that serves as the main route for data transmission between

Discover why 19-inch rack cabinets remain the backbone of modern IT infrastructure. Learn about universal compatibility, scalable

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

Backbone is most important part of a system which provides the central support to the rest system, for example

Backbone in networking is the part of your network that ties different departmental networks into a single whole. The

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