

What are the major categories of network server racks



Article Overview

The major categories of network server racks are open-frame racks, enclosed cabinets, and wall-mount racks, each designed for specific security, cooling, and space requirements.

1. Open-Frame Racks

Open-frame racks, also known as open racks, are simple metal frameworks without doors or side panels. They are ideal for environments where easy access to equipment and unobstructed airflow are priorities, such as cable-intensive setups or non-secure areas. Open-frame racks come in 2-post and 4-post designs, supporting servers, switches, and other networking devices while allowing flexible cable management and cooling integration. They are cost-effective and commonly used in data centers where high-density airflow is critical .

2. Enclosed Cabinets

Enclosed server racks, or cabinet racks, are fully enclosed with locking doors and side panels, providing enhanced security and environmental protection. These racks are the standard choice for modern data centers and server rooms. They protect equipment from dust, moisture, and unauthorized access while supporting integrated cooling systems, power distribution units (PDUs), and cable management. Enclosed cabinets are available in various heights (measured in rack units, U), depths, and weight capacities, making them suitable for high-density deployments and sensitive equipment .

3. Wall-Mount Racks

Article Content

A Comprehensive Guide to Network Server Racks

Standard racks are best for straightforward deployments, high-density racks excel in space-constrained environments, modular racks

What is a Server Rack? The Ultimate Guide to Sizes (U) & Types (2026)

This guide clarifies server rack structure, standard rack unit (U) measurements, and helps you select between open frame racks,

Types of racks for Data Centers

Within these digital complexes, server racks play a crucial role in organizing and protecting the essential hardware for network

networking

When I go shopping for network infrastructure, I see lots of different kinds of racks available and I don't understand the difference

Server Rack Components Explained | AMCO Guide

Learn about the key components of a server rack and how they support efficient equipment installation and cable management.

What are Server racks? Types, Benefits, & Uses of Server Racks.

These are enclosed rack servers suitable for housing a large set of IT equipment, including expensive servers and networking

IT Racks and Accessories

APC NetShelter Open Frame Racks Open rack system for easy access to IT equipment and cabling. Cost-effective rack-mounting

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

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

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