

Network racks are available in a full range of specifications



Overview

Server and Network Cabinets | LegrandLegrand is a global provider of data center server and network cabinets, providing fully enclosed racks with side pane.

Key Takeaways

Network racks are available in a wide variety of sizes, depths, and configurations to accommodate diverse IT and networking equipment needs.Overview of Network Rack Options

Network racks are designed to house networking equipment such as routers, switches, patch panels, and cabling infrastructure. They are available in standard 19-inch widths and a variety of heights (typically 18U to 47U) and depths (commonly 24 inches to 32 inches), allowing for both low- and medium-density applications . Some racks are shallower than server racks, making them ideal for networking equipment that generates less heat .

Key Features and Configurations

- Open vs. Enclosed Racks: Open-frame racks provide easy access to equipment and cabling, while enclosed racks offer additional security and environmental protection .
- Cooling and Ventilation: High-density racks include perforated doors, fan integration, and airflow management to prevent overheating and maintain optimal equipment performance .

- **Cable Management:** Vertical and horizontal cable managers, brush panels, and bend radius protection help organize fiber and copper cabling, reducing downtime and maintenance errors .
- **Load Capacity:** Racks are engineered for both static and dynamic loads, with some professional models supporting over 1,000 kg or 2,250 lbs for fully populated configurations .
- **Security and Accessibility:** Options include lockable doors, solid or perforated side panels, and configurable access points to balance maintenance convenience with protection against unauthorized access .

Specialized Applications

- **Industrial and Outdoor Environments:** Network cabinets with higher protection ratings (e.g., IP54 or IP55) safeguard equipment from dust, moisture, and environmental hazards .
- **Data Centers and Server Rooms:** Server racks are deeper and designed for high-density servers, storage arrays, and UPS systems, often integrated with hot aisle/cold aisle containment strategies .
- **Customizable Solutions:** Many manufacturers offer configurable racks with modular accessories, allowing tailored solutions for specific IT projects, including pre-installed PDUs, cooling units, and cable management systems .

Advantages of a Full Range of Network Racks

Having access to a full range of network racks ensures compatibility with both leading vendor equipment and OEM brands, supports future expansion, and allows organizations to optimize space, cooling, and cable management. Flat-pack options reduce shipping costs and simplify on-site assembly, while modular designs provide flexibility for evolving IT infrastructure . In summary, network racks are highly versatile, with options ranging from compact, shallow cabinets for small networks to robust, high-capacity enclosures for enterprise data centers, all designed to ensure equipment protection, efficient airflow, and organized cabling.

Article Content

Rack Enclosures, Wall-Mount Racks, Open Frame Racks and

Racks, Open Frame Racks and Accessories Secure and organize rack-mounted servers, storage and network / telecom equipment.

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