What are the specifications and models of network cabinets

Overview

INTEGRATED CABLE MANAGEMENT ed cable entry/exit points. Each cabinet includes wo vertical cable managers.

Key Takeaways

Network cabinets come in a variety of standard specifications and models, including open frame, enclosed, seismic-rated, and high-density cabinets, with sizes, load capacities, and features tailored for data centers, IT closets, and enterprise environments. Standard Specifications1.

Dimensions and Mounting

Rack Units (RU): Common heights range from 42RU to 52RU, with widths typically 19" (482. 6 mm) for standard IT equipment, and depths from 600 mm to 1200 mm depending on equipment and cable management needs. Vertical Rails: 19" mounting rails with 25 mm DIN pitch holes; some cabinets support 21" or 23" rails for offset mounting.

Baying: Cabinets can be bayed on all sides without increasing overall width, allowing contiguous rows. 2.

Materials and Construction

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Frame Materials: Tubular steel, aluminum, or sheet metal; welded or bolted frames for torsional stiffness. Doors and Panels: Front and rear doors may be perforated (up to 85% vented) for airflow; side panels can be one-piece or two-piece with quick-release fasteners. Load Capacity: Standard cabinets support 1500–5000 lbs (680–2270 kg) of equipment, with some seismic-rated models supporting additional top loads.

3.

Thermal and Cable Management

Airflow: Perforated doors, vented panels, and optional top/bottom panels for hot/cold aisle containment. Cable Management: Integrated channels, side panels, and Zero-U space for PDUs and cabling. Thermal Accessories: Fans, ducting, and hybrid termination boxes for high-density deployments.

4.

Compliance and Certification

Seismic Standards: GR-63-CORE Zone 4 for earthquake resistance. Fire and Safety: UL 94 HB, V0, or V2 compliant plastic components. Custom Certifications: ASCE 7 seismic certification for high-vibration or earthquake-prone areas.

Common Models and SeriesBeldenXHS Series: Networking and switch cabinets with modular, scalable design, high load capacity, and airflow management. Open Frame Racks: Suitable for telecom closets and data centers, supporting single or multi-rack applications. Chatsworth Products (CPI)ZetaFrame® Cabinet: Turnkey solution with integrated power, cable, and thermal management; 1500 lb load, seismic-tested.

GT-Series GlobalFrame® Gen 2: Available in 14 frame sizes, designed for high-density IT environments. RittalTS IT Rack: Pre-configured racks with torsionally stiff frames, perforated doors, bayable enclosures, and flexible mounting rails; supports 19", 21", and 23" equipment. LegrandT-Series and T6 Cabinets: Fully enclosed racks with customizable heights (42–52RU), depths (36"–54"), and load capacities up to 5000 lbs; ASCE 7 seismic certified.

High-

Density and AI Cabinets: Designed for enterprise and hyperscale data centers with advanced cable and airflow management.

Summary

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Network cabinets are available in open frame, enclosed, and seismic-rated models, with standard 19" mounting rails, heights from 42RU to 52RU, and depths from 600 mm to 1200 mm. Key specifications include load capacity, material construction, airflow and cable management, and compliance with seismic and safety standards. Leading manufacturers such as Belden, Chatsworth Products, Rittal, and Legrand offer a wide range of models to meet diverse IT infrastructure requirements.

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