

24u Network Rack Technical Specifications



Overview

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Key Takeaways

A 24U network rack typically provides 24 rack units (42 inches) of vertical space, supports standard 19-inch equipment, and includes features for secure mounting, airflow, and cable management.

General Dimensions and Capacity

- Height: 24U corresponds to approximately 42 inches (1067 mm) of usable vertical space, with total cabinet heights varying by model (e.g., APC NetShelter SX: 1198.5 mm) .
 - Width: Standard 19-inch mounting rails for rack equipment .
 - Depth: Mid-depth racks typically range from 600 mm to 700 mm (23.6–27.5 inches), accommodating most server and networking devices .
 - Weight Capacity: Load-bearing capacity varies; for example, Tripp Lite SmartRack supports up to 1,000 lbs (453 kg), while Manifold 24U racks support up to 120 kg .
- Construction and Security
- Material: Heavy-duty steel with powder-coated finish for durability and corrosion resistance .
 - Doors and Panels: Reversible front and rear doors, removable side panels, and perforated panels for airflow; lockable to prevent unauthorized access .

- Compliance: Many racks are PCI-compliant and meet industry standards for secure IT equipment housing .

Mounting and Installation

- Vertical Rails: Square or threaded mounting holes, often with alternating hole patterns (12.7 mm–15.875 mm) for flexible equipment installation .
- Cable Management: Side and back panels, top and bottom access panels, and fan mount provisions for organized cabling and cooling .
- Mobility: Some models include casters for minor repositioning and adjustable leveling feet for stability .

Cooling and Ventilation

- Airflow: Vented doors and side panels, top and bottom vents, and optional fan mounts to maintain optimal equipment temperature .
- Fan Support: Provision for user-supplied case fans to enhance cooling in high-density setups .

Additional Features

- Assembly: Many 24U racks come fully assembled for quick deployment .
- Durability Testing: Some models undergo salt spray and environmental testing to ensure long-term reliability .
- Accessory Support: Optional keyboard trays, monitor shelves, and other modular accessories for IT management . These specifications make 24U network racks suitable for server rooms, IT closets, micro data centers, and edge computing environments, providing secure, organized, and ventilated housing for networking and server equipment.

Article Content

24U Enterprise-Grade Server Rack Cabinet Kit, 19in Enclosed 4-Post Rack ...

24U Enterprise-Grade Server Rack Cabinet Kit, 19in Enclosed 4-Post Rack with Shelf and Cable Management, 29in (75cm)

Related Video Reference

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