

## 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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