4U Switch for Smart Buildings 800mm Depth Specifications



Overview

How to Choose a Network Switch for a 4U Rack – Practical GuideA no-fluff guide on selecting the right network switch for a 4U rack: port count, PoE, manage.

Key Takeaways

A 4U switch for smart buildings with 800mm depth requires careful selection to ensure rack compatibility, sufficient airflow, and port density for building automation networks.

Rack and Depth Considerations

A 4U switch refers to a device that occupies 4 rack units (7 inches tall) in a standard rack. The depth of 800mm (~31. 5 inches) is deeper than typical shallow 4U wall-mount racks, which usually range from 10–17 inches (250–430mm) deep, so it is important to verify that the rack can accommodate the switch without obstructing airflow or cable management.

For smart building deployments, vertical or wall-mount 4U enclosures like the Eaton SRWF4U are commonly used, offering low-profile mounting and sufficient depth for industrial or PoE-enabled switches.

Typical Specifications

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When selecting a 4U switch for smart buildings, consider the following specifications: Port Density: Managed switches often provide 24–48 Gigabit Ethernet ports, with PoE+ support for powering devices like IP cameras, access points, and sensors. Power and Redundancy: Redundant power supplies are recommended for critical building automation systems to ensure uptime. Thermal Management: Adequate airflow is essential; deeper racks like 800mm allow for better heat dissipation and fan placement.

Network Performance: Depending on the application, switches may support L2/L3 forwarding, VLAN segmentation, and QoS for building automation traffic. Industrial Features: For smart buildings, consider switches with wide operating temperature ranges, vibration resistance, and surge protection.

Example Use Cases

Home or Small Office Smart Systems: Compact 4U switches with PoE+ can fit in shallow racks, but an 800mm depth allows for larger enterprise-grade switches with higher port counts. Commercial Smart Buildings: High-capacity 4U switches can support hundreds of devices, including lighting, HVAC, and security systems, with proper cable management and airflow in an 800mm deep rack. Data Center Integration: Modular 4U switches with QSFP or 10/25/40/100G uplinks can be installed in deep racks for backbone connectivity in large smart building networks.

Recommendations

Verify the rack depth and ensure the switch fits with clearance for cables and airflow. Choose a managed switch with PoE+ if powering smart building devices. Consider industrial-grade switches for vibration, temperature, and surge protection.

Use modular or scalable switches if future expansion is anticipated. By selecting a 4U switch that matches the 800mm depth, you ensure compatibility with the rack, maintain proper thermal management, and provide sufficient connectivity for smart building automation systems.

Article Content

How to Choose a Network Switch for a 4U Rack – Practical Guide

A no-fluff guide on selecting the right network switch for a 4U rack: port count, PoE, manageability, depth constraints, and real-world trade-offs explained.

4U Data Center Chassis System | Senao Networks

SNI provides 100G and 400G high-speed links'' capability, program the switch chip by P4 language, the line cards are the modular design and support hot-swap.

Eaton Tripp Lite SRWF4U SmartRack 4U Low-Profile

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Because the low-profile cabinet mounts vertically, it extends only 8" from the wall while housing equipment up to 20" deep, including network switches and patch

SRWF4U EATON ELECTRIC SmartRack 4U Low

Description: SmartRack 4U Low-Profile Vertical-Mount Switch-Depth Wall-Mount Rack Enclosure Cabinet SRWF4U Categories: Single-phase UPS up to 11kVA

FS 4-Slot 4U Modular Chassis Switch for Data centre

FS NC8400-4TH 4U modular chassis switch has 4 slots for full line rate 100G line cards and comes with Broadcom TH3 BCM56980 chip to deliver high density and low latency for the next generation data

Eaton Tripp Lite Series SmartRack 4U Low-Profile Vertical-Mount Switch

Its intelligent combination of a low-profile footprint, vertical-mount capability, and switch-depth engineering ensures clean, organized cable management and straightforward access to ports, while

Proximity switch SMTO-4U

1) Please refer to the EC declaration of conformity for the area of use: → Certificates. If the devices are subject to usage restrictions in residential, commercial or industrial environments

Industrial Switch (SFC8000G) Set type Chassis (4U)

Industrial Switch (SFC8000G) Set type Chassis (4U) SFC8000G-4U : 19” RACK TYPE, 1U SIZE, 8-Slots ... Ordering Information

Tripp Lite by Eaton SmartRack 4U Low-Profile Vertical-Mount Switch ...

Because the low-profile cabinet mounts vertically, it extends only eight inches from the wall while housing equipment up to 20 inches deep, including network switches and patch panels.

4U Server Rack Cabinet, Low-Profile, Side-Mount, Wall

Secures and organizes 4U of rack equipment up to 29.4 in. deep in network closets and other locations with limited floor space. This SmartRack® cabinet is

Switch cabinet | wall-mounted | 4U | 600x450x280mm

Technical Specifications: Capacity: 4U Dimensions: 600x450x280 mm Width: 600 mm Depth: 450 mm Height: 280 mm Doors: Lockable with transparent glass

Products overview | Schneider Electric

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Discover Schneider Electric range of products: PLCs, motor starters, drives, circuit breakers, switches, sockets, lighting, transformers, substations, UPS etc...

SmartRack 42U Standard-Depth Extra-Wide Rack Enclosure Cabinet

Wide Server Rack Accommodates 42U of Equipment with Side Cable Management This SmartRack® 42U enclosure is designed for network wiring closets, retail locations, classrooms, back offices and

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SmartRack 4U Low-Profile Vertical-Mount Vented Wall-Mount Mini

4U Vented Rack Enclosure Ideal for Housing Network Equipment in Small Spaces This SmartRack® cabinet is recommended for wiring closets, retail locations, classrooms, back offices and other

S-R4U (4U RACK)

Specification Size Height 230MM, Width 500MM, Depth 400MM. Wide Toughened Glass Door (5MM) With Lock for High Visibility & Safety of DVR/Other Devices. Separation tray with adjustable slots for

SmartRack 4U Low-Profile Side-Mount Wall

Space-Saving 4U Wall-Mount Enclosure Houses 19 in. Rack Equipment up to 29.4 in. Deep This SmartRack® cabinet is designed to house 4U of equipment, such as network switches and patch

42U Wide Server Rack, Euro-Series

MODEL NUMBER: SRX42UBWD 42U rack enclosure with 800 mm width houses, organizes and secures rack equipment in high-density server and IT networking areas.

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