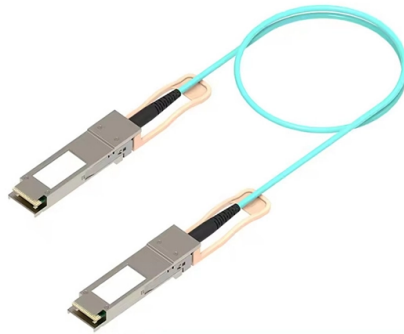


48-port access layer of switch



AI Overview

48-port access layer switches provide high-density connectivity for enterprise, campus, and SMB networks, supporting PoE, Layer 2/3 management, and uplink aggregation for scalable network deployment.

Overview A 48-port access layer switch is designed to connect end devices such as computers, IP phones, wireless access points, and IoT devices to the network. These switches are typically deployed at the edge of a network, providing high port density and often supporting Power over Ethernet (PoE) to power connected devices without separate power supplies.

Key Features

- Port Density:** 48 Gigabit Ethernet ports, sometimes with multi-gigabit or 10G SFP+ uplinks for aggregation.
- PoE Support:** Many models provide PoE, PoE+, or PoE++ to power devices like IP cameras and access points. The total PoE budget limits the number of devices that can be powered simultaneously.
- Layer 2/3 Capabilities:** Managed switches offer Layer 2 switching and Layer 3 routing features, including VLANs, static routing, and link aggregation for higher throughput.
- Stacking and Uplinks:** Some switches support stacking or multiple uplinks to simplify network expansion and improve redundancy.
- Management Options:** Cloud-managed or on-premises management platforms allow monitoring, configuration, and security enforcement.

Use Cases

- Enterprise and Campus Networks:** Ideal for medium to large campuses with Wi-Fi and IoT deployments, providing centralized connectivity for end devices.
- Small Data Centers or Edge Aggregation:** Can serve as top-of-rack (ToR) or access switches in smaller data centers or branch offices.
- Branch Offices and SMBs:** Entry-level Layer 2/3 switches provide reliable connectivity with simplified management for growing businesses.

Examples of 48-Port Access Layer Switches

- Cisco Meraki MS130-48:** Cloud-managed, optimized for campus networks with Wi-Fi and IoT integration.
- Netgear M4500/M4350 Series:** Managed switches with PoE and SFP uplinks, suitable for scalable deployments.
- Ubiquiti UniFi Switch Pro 48...**

Article Content

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Cisco® Catalyst® 1000 Series Switches are fixed managed Gigabit Ethernet and Fast Ethernet enterprise-class Layer 2 switches designed for small

Ubiquiti Switch Enterprise 48 PoE – Electroeshop

The USW Enterprise 48 PoE also offers an extensive suite of advanced Layer 2 switching protocols, including port-specific operation modes (switching, mirroring, or aggregate). Additionally, it features a

Layers of OSI Model

The OSI Model is a conceptual framework created by the International Organization for Standardization (ISO) to describe how data is

24/48 Port Gigabit Ethernet Access Layer 3 Switch

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In this guide, we've tested and reviewed the best 48-port network switch on the market to help you find the right one for your network setup.

Switch Pro Max 24 PoE

A 24-port, Layer 3 Etherlighting™ switch capable of high-power PoE++ output.

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It combines 48 Gigabit PoE ports with four committed 10G SFP+ uplinks, permitting quicker statistics switch among network layers. This model is ideal for business

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TL-SG1048 | 48-Port Gigabit Rackmount Switch | TP-Link

The 48-Port Gigabit Switch TL-SG1048 is designed to meet the needs of the most demanding workgroup and departmental connectivity requirements. A reliable,

Access layer | FortiSwitch 7.6.0 | Fortinet Document Library

Access layer The access layer is where endpoints (such as phones, laptops, video-conferencing sets, printers, IoT sensors, IP cameras, and servers) are primarily connecting to the network. Wireless

Sophos Switches | Control Device Access at the LAN Edge

The Sophos Switch Series offers a range of network access-layer options for connecting and powering devices on your LAN while adding security

Atlantic International University

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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Network Switches

Cisco network switches deliver performance, flexibility, and security. Cisco switches are scalable and cost-efficient and meet the demands of hybrid work.

48 Port Switches

Explore a wide selection of 48 port switches to find the right fit for your networking needs and ensure seamless communication across your entire infrastructure. A rack-mountable switch offering high

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The Cisco SGE2010 can coexist in a stack with the Cisco SGE2000 and SGE2000P 24-Port Gigabit Switches and the Cisco SGE2010P 48-Port Gigabit Switch, for a maximum of 192 ports in a stack.

Contact Us

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