

48-port network switch with optical ports



AI Overview

48-port switches with optical ports provide high-density fiber connectivity for enterprise, campus, and data center networks, supporting SFP/SFP+ modules and high-speed uplinks. Overview A 48-port optical switch is designed to handle large-scale network deployments where fiber connectivity is required for long-distance, high-speed, and low-latency data transmission. These switches are commonly used in data centers, campus networks, and industrial environments to aggregate traffic from multiple access-layer switches or servers. Key Features Port Configuration: Typically, 48 x 1G or 2.5G SFP/SFP+ ports for fiber-optic connections, with additional uplinks such as 4 x 10G SFP+ or 2 x 40G QSFP for high-speed backbone connectivity. Managed vs Unmanaged: Managed switches allow configuration, VLAN segmentation, QoS, and monitoring, while unmanaged switches offer plug-and-play simplicity. Redundancy and Reliability: High-end models often include hot-swappable dual power supplies and modular fans to ensure continuous operation. Performance: Designed for low-latency transmission, suitable for servers, storage devices, and high-bandwidth applications. Some models support 2.5G access ports for enhanced throughput. Use Cases: Ideal for top-of-rack (ToR) deployment, cross-building campus networks, industrial monitoring, and SAN environments. Fibre Channel variants, like the Cisco MDS 9148T, provide 32-Gbps connectivity for storage networks. Examples of 48-Port Optical Switches Toputel TOP-S5350-54SX: 48 x 1GE SFP ports, 4 x 10GE SFP+ uplinks, dual redundant PSU, Layer 3 managed, suitable for campus and small data center deployments. SZ6348-ADCB: 48 x 2.5G Base-T ports, 4 x 10G SFP+ interfaces, 2 x 40G QSFP uplinks, energy-efficient, enterprise-grade security, and elastic stacking for scalable networks. Cisco MDS 9148T: 48-port 32-Gbps Fibre Channel switch for SANs, supporting FC-NVMe workloads, auto-zoning, and high-performance storage connectivity. Considerations Distance and Fiber Type: Optical...

Article Content

48 Port Switches | Lanmus | Your Global Partner for Network Devices

LANMUS offers 5 48-port switch models throughout controlled and Xtreme Layer 3 categories. Each model is designed for specific employer, campus, and information center necessities, offering

S3410-24TS-P, 24-Port Gigabit Ethernet L2+ PoE+ Switch, 24 x PoE+ Ports ...

Overview The S3410-24TS-P is a high-performance Layer 2+ Gigabit Ethernet switch designed for campus network environments. It features 24 ports of 10/100/1000BASE-T RJ45 with support for

Managed Network Switches | Industrial Managed Switches

Get managed network switches connect end-users, servers, and storage via flexible core, distribution, and access layers, enabling high port density, stacking, and flexible management.

48 Port Switches — Streamline Your Network Infrastructure

Scale your infrastructure fast with our 48 port switches featuring PoE and SFP uplinks. Choose from managed and unmanaged models and streamline your setup now.

Switch Port VLAN Assignment (Trunk & Access Ports)

Switch Port VLAN Assignment (Trunk & Access Ports) Configuring VLANs (Virtual Local Area Networks) on switch ports is essential for network segmentation and performance. This article explains how to

Dell EMC Networking S5248F-ON 48 ports switch

Buy Dell S5248f-on Emc Networking - Switch - L3 - Managed - 48 X 25 Gigabit Sfp28 + 4 X 100 Gigabit Qsfp28 + 2 X 200 Gigabit Qsfp28-dd - 2x Ac Psu, With Onie And Reverse Airf....Great customer

Araknis 420 Series PoE+ Network Switch

Featuring advanced capabilities such as Layer 2 and Lite Layer 3 network management, networking professionals can better tailor the network experience

Juniper EX4100-F-48T

EX4100-F-48T - 48-port 10/100/1000BASE-T switch, 4x1GbE/10GbE SFP/SFP+ uplinks, 4x10GbE stacking/uplink ports, with Standard SW, optics sold separately, TAA compliant Product Overview

48-Port Gigabit Ethernet Smart Switch w/ optional Remote

The GS752TXV3 is a 48-port Gigabit Smart Switch with 4 SFP+ uplink ports, designed for converged networks big or small. Optional remote and cloud management via NETGEAR Insight. 1-year

Ubiquiti UniFi Pro 48 PoE USW-Pro-48-PoE-EU | 48-Port Layer 3

Shop the Ubiquiti UniFi Pro 48 PoE USW-Pro-48-PoE-EU featuring 48 Gigabit ports, 4x10G SFP+ uplinks, 600W PoE budget, 176 Gbps switching capacity, Layer 3 management, and a 1.3-inch

RG-S5310-48SFP4XS-E, 48-Port GE Optical Layer 3

The device supports CE series 36-port 400GE line cards and 48-port 100GE line cards, and the next-generation 800GE line cards. It currently supports up to 288

Used Computer Networking Network Switches

Key Features 8 x 2.5G RJ45 Ethernet Ports 1 x 10G SFP+ / RJ45 PoE+ In Combo Port 60 Gb/s Switching Capacity 45 Mpps Forwarding Rate

Best 48-Port Network Switch in 2026: Tested and

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.

Ethernet

A switching loop or bridge loop occurs in computer networks when there is more than one Layer 2 (OSI model) path between two endpoints (e.g., multiple connections between two network switches or two

Cisco N9K-C93108TC-FX3P Nexus 93108TC-EX 48 ports managed

CISCO N9K-C93108TC-FX3P Nexus 93108tc-fx3p Ethernet Switch - 48 Ports - Manageable - 10 Gigabit Ethernet, 100 Gigabit Ethernet - 10gbase-t, 100gbase-x - 3 Layer Supported - Modular - Optical

Intelligent networking solutions for the AI era

Adtran is a leading global provider of open, disaggregated networking and communications solutions that enable voice, data, video and internet

Cisco MDS 9148T 32-Gbps 48-Port Fibre Channel Switch Data Sheet

Growth in small increments: The MDS 9148T Fibre Channel switch provides an option to deploy as few as twenty-four 32-Gbps Fibre Channel ports in the entry-level variant, which can grow

Cisco MDS 9148V 64-Gbps 48-Port Fibre Channel Switch Data Sheet

Cisco MDS 9148V 64-Gbps 48-Port Fibre Channel switch brings the latest high-performance, low-latency Fibre Channel Storage Area Network (SAN) technology to market.

AXIS D8248 Managed PoE++ Switch

This 48 port network switch is optimized for surveillance solutions. With a unique web graphic user interface, it offers a topology for easy overview and

48 Port Network Switch | SFP+ & 40G QSFP Switch

Featuring 48x2.5G Base-T ports, 4x10G SFP+ interfaces, and 2x40G QSFP uplinks, this optical fiber switch combines high-density connectivity with industry-leading

Cisco Systems Network Advantage C9200L-48P-4G Network Switch

Shop the Cisco Systems Network Advantage C9200L-48P-4G gigabit Ethernet switch with 48 PoE+ ports. Get the best price, official supplier quotes, and fast worldwide shipping.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://lwazipm.co.za>

Email: info@lwazipm.co.za

Phone: +27 82 415 6392

Address: 15 Oxford Street, Rosebank, Johannesburg, 2196, South Africa

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