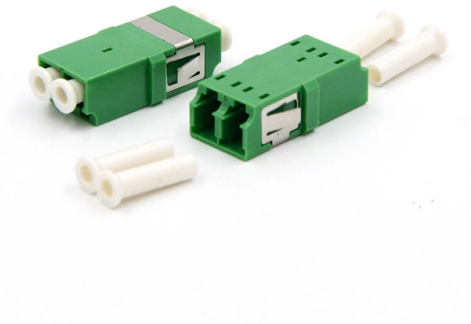
M48 Fiber Optic Switch



Overview

ml1d_app Product Description The IM48 is an Industrial Managed Gigabit Ethernet Switch. It has 4* 1000 Mbps fiber optic SFP ports and 8* 10/100/ 1000 Mbps.

Key Takeaways

The M48 Fiber Optic Switch is a high-density, 48-port networking device designed for high-speed, low-latency fiber connectivity in enterprise, data center, and telecom environments.

Key Features

Port Configuration and Speed The M48 switch typically offers 48 fiber ports, supporting high-speed data transmission. Depending on the model, ports may support 32-Gbps Fibre Channel for storage networks (Cisco MDS 9148T) or 1G/10G/40G Ethernet for enterprise networks, with SFP/SFP+ or QSFP uplinks for long-distance fiber connections. Some models include combo ports (SFP + RJ45) for flexible deployment.

Performance and Scalability These switches provide non-blocking line-rate forwarding, ultra-low latency, and high throughput, making them suitable for All-Flash storage arrays, virtualized servers, and cloud-scale applications. Advanced models support Network Port Virtualization (NPV), virtual SANs, and enhanced buffer-to-buffer credits for optimized storage connectivity. Management and Security M48 fiber switches often include managed features such as SNMP, RMON, Telnet, Web-based management, VLANs, QoS, and IPv6 support.

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Enterprise-grade models may also offer Fibre Channel link encryption, diagnostics for ISL and HBA ports, and Forward Error Correction (FEC) for reliability. Deployment ScenariosSmall-scale SANs: Automatic zoning, smaller port groups, and simplified management. Mid- to large-scale SANs: High control-plane scale, virtual SAN support, and 48-port non-oversubscribed line-rate connectivity.

Data centers and enterprise networks: High-density fiber connectivity for aggregation switches, routers, and storage systems, supporting converged voice and data networks. Environmental and Reliability Considerations Many 48-port fiber switches are designed for harsh environments, with ruggedized enclosures to withstand temperature extremes, vibrations, and electrical noise. Proper cable management and SFP module compatibility are critical for optimal performance.

Additional Capabilities Some models support PoE over fiber uplinks, modular fan and power components for energy efficiency, and stacking or clustering for redundancy and simplified management.

Summary

The M48 Fiber Optic Switch is a versatile, high-performance solution for organizations requiring high-speed, reliable, and scalable fiber connectivity. Whether used in SANs, enterprise networks, or telecom infrastructures, it provides dense port configurations, advanced management, and robust reliability features to support modern high-bandwidth applications.

Article Content

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Product Description The IM48 is an Industrial Managed Gigabit Ethernet Switch. It has 4* 1000 Mbps fiber optic SFP ports and 8* 10/100/ 1000 Mbps electrical ports.

2109-M48 IBM TotalStorage SAN256B Director Model M48

The IBM TotalStorage SAN256B director is designed to support up to eight, 32-port Fibre Channel switch blades enabling a single domain director with up to 256 universal (E, F, and FL), full duplex,

Thinklogical Velocity Matrix Switch MX48 Matrix Switch

The MX48 is Thinklogical''s most compact, high performance, non-blocking matrix switch for complete, end-to-end routing of video and peripheral signals. The

Fiber-optic Switches

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A fiber-optic switch is a device used in fiber optics to route light from one or more input fibers to one or more output fibers. It can act as a simple on/off switch or a complex matrix switch with multiple inputs

Optical switches

The switches are available for a broad spectrum ranging from ultraviolet to infrared, and can be manufactured and operated with virtually any fiber (both cascaded

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

High performance: MDS 9148T architecture, with centralized nonblocking arbitration, provides consistent 32-Gbps low-latency performance across all traffic conditions for every Fibre

Used Refurbished IBM 2109-M48 SAN256B FC SAN Director

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Amazon : 48 Port Unmanaged Switch

Tenda 48 Port Gigabit Ethernet Switch | Unmanaged Rackmount Switch | 48*10/100/1000Mbps Shielded Ports & 2*SFP Slots | Plug & Play | One-Key VLAN | Sturdy Metal | Fanless Quiet for Business

48-Port L2 Managed Gigabit Fiber Switch, 44x 100/1000 SFP, 4x

44x 100/1000Mbps SFP Slots 4x 100/1000Mbps Combo (SFP + RJ45)SFP Slots support for MiniGBICs 100-FX, 1000Base-XManagement: SNMP, WEB, RMON, Telnet and TFTP managementIPv6,

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48 port SFP+ switch | 40G QSFP Optical Fiber ethernet Switch

48-Port SFP+ Switch with 40G QSFP & SFP+ Ports – High-density 48 port ethernet switch offering 2.5G/10G/40G connectivity, enterprise-grade security, and energy efficiency for data centers and

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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. Along

48 port fiber optic switch

Buy affordable 48 port fiber optic switch, start from around $2000, ideal for data centers. Available in bulk for wholesale. Suitable for enterprise networking and storage solutions.

Cisco Catalyst C9300-48S-E: 48-Port 1G Fiber Switch

Q: Is this switch suitable for fiber-based networks? A: Yes, with 48 x 1G SFP ports, the Catalyst C9300-48S-E is designed for fiber-only networking, making it an

Top Fiber Optics Stocks In 2026

Moving data swiftly is crucial for modern technology infrastructure. Even better, moving from traditional switch architecture to optical switch

Rackmount 4x8 8x8 Matrix Optical Switch_anfiber

Rackmount 4X8 8X8 Optical Switch (Single mode and Multimode) Rackmount 4X8 8X8 Optical Matrix Switches allow simultaneous connection between 4 or 8 inputs and 4 output fibers,in a fully non

Optical Switches: Singlemode/Multimode Fiber Switch

Lfiber''s optical switches (singlemode/multimode fiber switches) are micro-optic-based, opto-mechanical switches. These fiber switches offer a cost-effective way to provide flexibility in optical network

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