

Switch with 2 fiber optic ports



Overview

Fiber Optic Network Switches Our Ethernet network switches with fiber ports comes in managed or unmanaged formats combined with both Industrial and Commercial.

Key Takeaways

A switch with 2 fiber optic ports allows high-speed, long-distance network connections while integrating with standard Ethernet devices.

Overview

A switch featuring 2 fiber optic ports is typically a hybrid Ethernet switch that combines fiber connectivity with traditional copper Ethernet ports. The fiber ports, often SFP (Small Form-factor Pluggable) slots, enable long-distance data transmission over single-mode or multi-mode fiber, while the copper RJ45 ports provide standard Ethernet connections for local devices. These switches are sometimes referred to as fiber media converters, as they convert electrical Ethernet signals to optical signals and vice versa.

Technical Specifications

Fiber Ports: Usually 2 SFP slots supporting: Single-mode fiber (SMF): 1310 nm wavelength, up to 20 km Multi-mode fiber (MMF): 850 nm wavelength, up to 2 km
Copper Ports: Typically 4-8 RJ45 UTP ports supporting 10/100/1000 Mbps
Standards: IEEE 802.3, 802.3u, 802.



3ab, 802. 3zPower: DC 5–12 V or 12–24 V depending on modelOperating Temperature: –10 °C to +70 °CPower Consumption: Usually under 8 W Advantages of Fiber PortsLong-Distance Connectivity: Fiber ports allow connections over kilometers without signal degradation, ideal for linking buildings or remote network segments.

High-

Speed Data Transfer: Supports Gigabit Ethernet, ensuring low latency and high throughput. Enhanced Network Reliability: Fiber is less susceptible to electromagnetic interference compared to copper cables. Flexible Integration: Can bridge fiber and copper networks seamlessly, supporting both indoor and outdoor deployments.

Applications

Campus LA

Ns: Connecting multiple buildings or floorsIP Camera Networks: Long-distance surveillance setupsWireless Access Points: Extending network coverageFTTH (Fiber to the Home) CPE: Residential or commercial fiber connectionsIndustrial Networks: Environments requiring robust, interference-resistant connections Choosing Fiber TypeSingle-mode SFP: Best for long-distance links (up to 20 km)Multi-mode SFP: Suitable for short indoor connections, such as within a building or data rack (up to 2 km), SummaryA switch with 2 fiber optic ports provides versatile, high-speed networking by combining the benefits of fiber and copper connections.

It is ideal for scenarios requiring long-distance connectivity, high bandwidth, and reliable integration with existing Ethernet infrastructure, making it suitable for enterprise, industrial, and campus networks.

Article Content

Fiber Optic Network Switches

Our Ethernet network switches with fiber ports comes in managed or unmanaged formats combined with both Industrial and Commercial grades. Utilize our PoE

Amazon : Fiber Switches

Discover fiber switches designed for reliable network connectivity. Browse 10G, 2.5G, and gigabit options to expand your bandwidth.

Teltonika Tsw200 8 Port Unmanaged Industrial Gigabit Poe+ Switch

Teltonika TSW200 is industrial unmanaged Gigabit switch from Teltonika Networks. Teltonika TSW200 is equipped with 2 SFP ports for long-range Fiber-optic communication and 8 Gigabit Ethernet ports

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The SEL-2730M is a managed 24-port layer-2 switch. Apply the switch to build reliable, safe Ethernet networks in electrical substations, plants, and other

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Smart Store Teltonika Tsw212 Din Rail Mountable Managed Switch

Teltonika TSW212 DIN Rail Mountable Managed Switch 8 x 10/100/1000 Mbps ETH-ports switch with 2 x SFP. The TSW212 is an L2 Teltonika Networks managed switch with additional L3 features, like

S3410C-8TMS-P, 8-Port Gigabit Ethernet L2+ PoE+ Switch, 8 x PoE+ Ports

Overview The S3410C-8TMS-P is a high-performance Layer 2+ managed PoE+ switch designed for enterprise and campus network environments. It features 8 ports of 10/100/1000BASE-T for standard

An introduction to SFP ports on a Gigabit switch

Small form-factor pluggable is a hot-swappable interface used to connect network and storage switches and transfer data. Switches with SFP ports can connect to fiber optic and Ethernet

Smart Store Teltonika Tsw202 Din Rail Mountable Managed Poe+ Switch ...

This PoE+ switch enables flexibility over solution management and power supply and enhances M2M communication by supporting a wide range of industrial protocols, including EtherNet/IP, Profinet,

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