Managed Fiber Optic Switch with 2 Optical Ports



Overview

This TCP/IP managed switch has two 100BASE-FX ports for fibre optic and fourteen 10BASE-T/100BASE-TX ports for copper cable.

Key Takeaways

Managed fiber optic switches with 2 optical ports provide reliable Ethernet-to-fiber connectivity, advanced network management, and industrial-grade durability for distances up to 100 km.

Key Features

Port Configuration: These switches typically combine 2 fiber optic ports (singlemode or multimode) with multiple copper Ethernet ports, commonly 8 RJ45 ports, allowing flexible network expansion and uplink connectivity (Schneider Electric Modicon, EL-1000-4GM). Management Capabilities: Managed switches support Layer 2 management, including VLANs, SNMP monitoring, redundancy protocols like MRP (Media Redundancy Protocol) and RSTP (Rapid Spanning Tree Protocol), and web or SNMP-based configuration for PCs, smartphones, and tablets.

Industrial-

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Grade Design: Many models are designed for harsh environments, with temperature ranges from -40°C to +70°C, IP20 protection, and metal housings suitable for DIN rail mounting. They often include redundant power supplies (12–60 VDC) for high reliability. Fiber Support: Optical ports support 1000-BASE-FX for singlemode or multimode fibers, with some models offering BiDi technology for bidirectional data transmission over a single fiber.

Transmission distances can reach up to 100 km, depending on fiber type and switch model. Standards and Certifications: These switches comply with industrial and safety standards such as CE, UL, RCM, DNV, ATEX, and EMC regulations, ensuring safe and reliable operation in industrial networks. Use Cases: Ideal for industrial automation, SCADA systems, RTU/PLC networks, and enterprise networks requiring fiber uplinks for long-distance or high-speed connectivity.

They are suitable for medium-complexity networks with moderate traffic. Additional Features: Some switches include PoE support, modular port options, and lifetime warranties, providing flexibility for network expansion and maintenance.

Example Models

Schneider Electric Modicon Extended Managed Switch: 8 copper ports + 2 singlemode fiber ports, DIN rail mount, low power consumption, CE/UL certified. EL-1000-4GM Industrial Ethernet Switch: 8 RJ45 + 2 fiber ports, supports PROFINET, TSN-ready, redundancy protocols, BiDi fiber support, -40°C to +70°C operation. Versitron Fiber Optic Switches: Managed or unmanaged, industrial and commercial grades, SFP support, lifetime warranty, flexible port configurations.

These switches provide a robust solution for extending Ethernet networks over fiber, ensuring high reliability, long-distance connectivity, and advanced management for industrial and enterprise applications.

Article Content

ConneXium Managed Switch

This TCP/IP managed switch has two 100BASE-FX ports for fibre optic and fourteen 10BASE-T/100BASE-TX ports for copper cable. It is a network switch with a supply voltage of 24V, a

Cisco SG350XG-24F 24-Port 10G SFP+ Stackable Managed Switch

Cisco SG350XG-24F 24-Port 10G SFP+ Stackable Managed Switch - 2 Ports - Manageable - 3 Layer Supported - Modular - Optical Fiber, Twisted Pair

network switch, Modicon Networking, managed, 8 ports for copper

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It comes with 8 copper cable transmission ports and 2 ports for single-mode fiber optic. It provides simple and complex connectivity for multiple Ethernet device, network management, enhanced cyber

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Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable network interface module format used for

Optical networks

An optical transport network is a high-speed communication system that sends light signals over fiber-optic cables to move large amounts of data across long

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