

Industrial-grade SFP switches



Article Overview

Industrial switches with SFP ports enable reliable fiber or copper connectivity in harsh environments, supporting extended temperature ranges and industrial-grade robustness.

Overview of Industrial SFP Modules

Industrial SFP (Small Form-factor Pluggable) modules are designed for harsh environments, offering extended temperature tolerance, ruggedized hardware, and resistance to electrical interference and mechanical stress. They support multiple interface types, including 100BASE-FX, 1000BASE-SX, 1000BASE-LX, and 1000BASE-T, and can operate over multimode or single-mode fiber for distances ranging from hundreds of meters to tens of kilometers. These modules are hot-swappable and often include Digital Diagnostic Monitoring (DDM/DOM) for real-time monitoring of voltage, temperature, and optical power.

Key Compatibility Considerations

When selecting SFP-compatible industrial switches, ensure the following:

- **Port Speed:** Match the SFP module speed (1G, 10G, etc.) with the switch port; a 1G SFP cannot operate in a 10G-only SFP+ port.
- **Fiber Type and Wavelength:** Verify single-mode or multimode compatibility and the correct wavelength for your network distance.
- **Vendor Coding:** Some switches require SFP modules with specific vendor IDs; industrial SFPs like LINK-PP can be coded to match major brands.

Article Content

Unmanaged Industrial Ethernet Switches | Rugged DIN Rail Switch

Unmanaged Industrial Ethernet Switches Compact DIN Rail Switches Industrial-grade Unmanaged Switches are "plug & play"

Industrial SFP Guide: Features, Types and Deployment Uses

This guide explains what industrial SFP modules are, their key technical characteristics, common types, and typical deployment

Industrial Ethernet Switches

Built for diverse industrial applications, these switches feature all-gigabit, high-density, all-copper or mixed copper and fiber ports,

Cisco Catalyst IE9300 Rugged Series switches

Cisco Catalyst IE9300 Rugged Series switches are high-performance rackmount switches for building scalable, resilient, and secure

Ethernet Switches

Moxa provides a wide range of industrial Ethernet switches that feature industrial-grade reliability, network redundancy, strengthened

Industrial Layer 3 10G Switch | Industrial & Telecom Network

As an industrial Layer 3 Ethernet switch for process and transportation automation applications, IXR-GS24044X supports static and

4+4 Managed 10/100/1G SFP PoE+ Industrial Switch

Industrial Ethernet 4+4 managed gigabit PoE+ (30 watts) switch featuring 4 x 10/100/1G Mbps RJ45 ports and 4 x 100/1G SFP ports.

Industrial Ethernet Switches | Industrial Network Switch | Perle

Industrial-grade Ethernet Switches are specifically designed to connect devices in network environments that are subject to extreme

How To Select an SFP Module for Your Industrial Network Switches

Learn about the different types of Small Form-factor Pluggable modules—or SFP for short—, how they're used in industrial network

Industrial Switches (ISW) | Extreme Networks

Extreme Industrial Switches are a family of ruggedized Layer 2 switches designed to operate under harsh environments and

8 Port Managed Industrial PoE Switch With 2 Giga SFP | Comxus

Rugged 8 Port Managed Industrial Grade PoE Switch With 2 Giga Uplink SFP. PoE power + fiber uplinks for reliable industrial

Industrial Ethernet Switches

FS Industrial Ethernet Switches with robust design for harsh industrial and outdoor environments subject to vibrations, shocks and

Layer 3 Managed Switches

Moxa's Layer 3 managed switches feature industrial-grade reliability, multicast availability, and security enhancements based on the

Industrial 8-Port Gigabit PoE+ Web Managed Switch with 4 SFP Slots

The Edimax Pro IGS-5408P industrial 8-port PoE+ Gigabit web managed switch comes with 4 SFP slots for enduring, reliable,

Durable Industrial Switches

With their strong build, the whole family of DIS industrial switches are certified against vibration, shock and free-fall. We're so

4 Port Managed Industrial-Grade PoE Switch With 2 SFP | Comxus

Rugged 4 Port Managed Industrial-Grade PoE Switch with 2 Giga Uplink SFP . Compact design, Layer 2+ features & reliable

Managed Network Switches | Industrial Managed Switches

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Managed 9 Port Industrial Ethernet Switch | IDS-409-SFP | Perle

Perle Industrial-grade Ethernet Switches are designed to stand up to extreme temperatures, surges, vibrations, and shocks found in

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