

Industrial Ethernet Switch Single Mode



Overview

Find your single-mode network switch easily amongst the 137 products from the leading brands (ERA-SIB, Lumibird, Westermo, ...)

Key Takeaways

Industrial Ethernet switches with single-mode fiber provide long-distance, interference-resistant network connectivity for harsh industrial environments.

Single-mode industrial Ethernet switches are designed to deliver stable, high-speed network connections over long distances, typically up to 100 km, while resisting electromagnetic interference common in industrial settings. They are ideal for applications in factory automation, energy systems, transportation networks, surveillance backbones, and outdoor field deployments.

Types and Configurations

- **Managed vs Unmanaged:** Managed switches offer advanced features like VLANs, QoS, network redundancy, and monitoring, while unmanaged switches provide plug-and-play simplicity for smaller networks.
- **Port Options:** These switches often include a combination of copper Ethernet ports (RJ45) and fiber ports. Fiber ports can support single-mode or multimode SFP modules, with LC, SC, ST, or FC connectors.
- **Speed and Performance:** Available in Fast Ethernet, Gigabit, and 10G variants, supporting high-throughput industrial applications.

- Redundancy and Reliability: Many switches support ring network redundancy using protocols like ITU-T G.8032 Ethernet Ring Protection Switch (ERPS) for

Article Content

Ethernet Switches

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

Single-mode network switch, Single-mode ethernet switch

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Industrial Ethernet Switches | Phoenix Contact

The Single Pair Ethernet switch supports the SPE standard 10 BASE-T1L and therefore enables consistent IP-based communication

Industrial Ethernet Switch

ORing's industrial Ethernet switch portfolio is built for reliable industrial connectivity and enhanced OT cybersecurity. Our range

EDS-208A Series

The EDS-208A Series 8-port industrial Ethernet switches support IEEE 802.3 and IEEE 802.3u/x with 10/100M full/half-duplex,

Unmanaged Industrial Ethernet Switches | Rugged DIN Rail Switch

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

EDS-316 Series

The EDS-316 Ethernet switches provide an economical solution for your industrial Ethernet connections. These 16-port switches

Industrial Ethernet Switches

Managed, unmanaged and Power-over-Ethernet (PoE) IP20- and IP67-rated Industrial Ethernet Switches are robust and versatile,

IFS-401F-E-SC030: 4+1 Port Fast Ethernet Industrial ...

All Industrial Ethernet switches include a DIN rail mounting kit and a small power jack adapter for optional external AC adapter. The

Industrial Ethernet Switches – Simple and effective

Our Ethernet switches are designed for use in industrial environments. They are robust, impact-resistant and temperature-resistant.

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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