

Industrial Fiber-to-Electronic Switches



Article Overview

Fiber-to-Electronic Industrial Switches provide reliable, long-distance, and interference-resistant network connectivity for harsh industrial environments, supporting Fast Ethernet, Gigabit, and 10G speeds with flexible fiber and copper configurations.

Overview

Fiber-to-Electronic Industrial Switches are specialized Ethernet switches designed for industrial environments where standard copper Ethernet is limited by distance or electromagnetic interference. They enable stable, high-speed data transmission over fiber optic cables, making them ideal for factory automation, energy systems, transportation networks, surveillance backbones, and outdoor deployments .

Key Features

- **Network Speeds:** Available in Fast Ethernet (100 Mbps), Gigabit (1 Gbps), and 10 Gigabit (10 Gbps) variants to match network performance requirements .
- **Port Configurations:** Options include SFP-based fiber uplinks, fixed fiber ports, hybrid copper-fiber ports, and multi-port fiber architectures. Common setups include 4×10G SFP+, 8×Gigabit SFP, and 16×Gigabit copper ports .
- **Fiber Types:** Support for single-mode and multimode fiber, with LC, SC, ST, or FC connectors. Transmission distances can reach up to 100 km under strong electromagnetic interference resistance .
- **Management Options:** Available in unmanaged, managed, and Layer 3 managed models, allowing network monitoring, VLAN configuration, and redundancy protocol...

Article Content

Network Switches | Copper, Fiber Optic, and Custom Switches

Network Switches Browse Network Switches designed for use in commercial, industrial, and military communication applications.

Industrial Fiber Optic Ethernet Switches | SFP, Single-Mode

Explore industrial fiber optic Ethernet switches from a direct manufacturer. SFP, single-mode and multimode fiber switches available

Industrial Fiber Optic Switches

Our products make use of SFP modules for multimode or singlemode fiber with LC connectors. Many of our switches support 1 or 2

Ethernet-to-Fiber Media Converters

Moxa's Ethernet to Fiber media converters feature innovative remote management, industrial-grade reliability, and a flexible, modular

WordHTML

WordHTML - Online Converter, Editor and Cleaner Free online Word to HTML converter with built-in code cleaning features. Open,

RLH Industries, Inc. | Fiber Optic Link

RLH Industries manufactures industrial fiber optic communication equipment: converters, Ethernet switches, enclosures, fiber cable,

Comdiel Ltda.

Ofrecemos productos y soluciones en Cableado Estructurado, Fibra Óptica, Telefonía, Racks, Gabinetes, Networking, UPS, CCTV y

Network Switches | Copper, Fiber Optic, and Custom Switches

Our Network Switch line includes copper and fiber optic switches, COTS or custom switches, designed for use in commercial,

Ethernet Switches

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

Schweitzer Engineering Laboratories

SEL provides complete power system protection, control, monitoring, automation, and integration for utilities and industries

Industrial Connectivity Solutions

Industrial Ethernet Switch The unmanaged Ethernet switches from the Ha-VIS eCon series now offer you further new models with

Industrial Ethernet Switches

Modernize your operations with Cisco Industrial Ethernet switches: Increase productivity, boost security, and empower industrial AI.

Unmanaged Switches

Moxa has a large portfolio of industrial unmanaged switches that have been specifically designed for industrial Ethernet

Hirschmann

Unmanaged Ethernet switches designed by Hirschmann for harsh industrial environments. Broad portfolio of industrial cybersecurity

Layer 2 Managed Switches

Moxa's Layer 2 managed switches feature industrial-grade reliability, network redundancy, and security features based on the IEC

Industrial Fibre Networking Solutions ► Westermo

Our range of fibre products include unmanaged and managed switches, switches with routing capability, device servers, media

Contact Us

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