

Industrial-grade managed optical switches



AI Overview

Industrial-grade managed optical switches provide reliable, high-speed fiber connectivity with advanced management, redundancy, and security features for harsh industrial environments. Overview Industrial-grade managed optical switches are designed to operate in extreme conditions such as high/low temperatures, vibration, dust, moisture, and electrical surges. They are commonly used in factories, transportation systems, power substations, rail networks, and smart city infrastructure. These switches support fiber optic connections (singlemode or multimode) and often include SFP modules for flexible port configurations, enabling high-speed data transmission and daisy-chaining of devices (VERSITRON) .Key FeaturesManaged Capabilities: Layer 2 and Layer 3 management, VLANs, QoS, SNMP monitoring, and network redundancy protocols for high availability (Belden, Moxa, Cisco) .Fiber and Copper Ports: Support for 100Base, 1000Base, 10-GE, and multigigabit ports, with mixed copper and fiber options for flexible deployment (Cisco, Maisvch) .PoE Support: Many industrial switches provide PoE/PoE+/PoE++ to power devices like cameras, sensors, and access points over fiber or copper connections (Moxa) .Environmental Resilience: Ruggedized enclosures, IP67-rated options, surge protection, and compliance with standards such as IEC 62443, EN 50155, IEC 61850-3, and NEMA TS2 ensure reliable operation in harsh conditions (Moxa, Maisvch) .Security and Monitoring: Advanced network security features including microsegmentation, zero-trust access, and device-to-cloud monitoring help protect industrial networks and support IT/OT convergence (Cisco, Belden) .Redundancy and Self-Healing: Support for ring topologies, rapid spanning tree, and redundant power inputs ensures minimal downtime in critical industrial applications...

Article Content

Industrial Network Switches Manufacturer | Wholesale,

We engineer and manufacture rugged, high-performance managed, unmanaged and PoE switches for the world's most demanding environments. Partner with us

Ethernet Switches

Moxa provides a wide range of industrial Ethernet switches that feature industrial-grade reliability, network redundancy, strengthened security, easy management, and competitive price-to

Industrial Ethernet Switches | Phoenix Contact

Our Industrial Ethernet Switch portfolio comprises Managed and Unmanaged Switches with Gigabit, PoE, IEC 61850 certification, and for DIN rail mounting. This gives you the flexibility to build powerful

4port Managed Industrial Gigabit Ethernet Switch L2 Smart ...

Buy 4port Managed Industrial Gigabit Ethernet Switch L2 Smart Fiber Optic Switch Support VLAN ERPS QoS with 2 SFP Fiber Ports Hardend Casing IP40 Protection Grade: Switches - Amazon FREE

Unmanaged Industrial Ethernet Switches | Rugged DIN Rail Switch

Unmanaged Industrial Ethernet Switches Compact DIN Rail Switches Industrial-grade Unmanaged Switches are "plug & play" devices specifically designed to connect equipment in network

Industrial Managed PoE Switch | Lanmus | Your Global

Industrial managed switches have temperature-resistant parts, sturdy metal casings, and protection from dust, vibration, and unstable power. They work nonstop in

Managed Switches

Tackle complex networks with NETGEAR managed switches. Get PoE, SFP, and multi-gig support, plus cloud or local control. Shop now and power your business network.

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Industrial Fiber Optic Switches

Many of our switches support 1 or 2 fiber ports which are advantageous when daisy chain configurations are required. The managed switches in this category provide support for both 100Base and

Industrial Ethernet Switches

Our managed Ethernet switches, fiber switches, and router switches provide fast Ethernet and gigabit combo ports as well as numerous network protocols, such

Layer 2 Managed Switches

Moxa's Layer 2 managed switches feature industrial-grade reliability, network redundancy, and security features based on the IEC 62443 standard. We offer toughened, industry-specific products with

8-Port Managed Industrial Gigabit Ethernet Switch | Eaton

Expand your Gigabit Ethernet network into harsh environments, such as mines and construction sites, with this 8-port Lite Managed PoE switch with IP30 casing.

Unmanaged Switches

Moxa has a large portfolio of industrial unmanaged switches that have been specifically designed for industrial Ethernet infrastructure. Our unmanaged Ethernet switches uphold the stringent standards

Cisco Networking for Service Providers

Find the scalable network infrastructure and software solutions to address your challenges with Cisco Networking for service providers.

Managed Switches

Managed Switches Belden offers a broad portfolio of ruggedized managed Ethernet switches that are engineered for reliable performance in harsh industrial environments. With Layer 2 (data link layer)

Managed Industrial Ethernet Switches | Rugged DIN

Managed Industrial Ethernet Switches Compact DIN Rail Switches Specifically designed to connect devices in network environments that are subject to extreme

19 Industrial Ethernet Switch Manufacturers in 2026 | Metoree

19 Industrial Ethernet Switch Manufacturers in 2026 This section provides an overview for industrial ethernet switches as well as their applications and principles. Also, please take a look at the list of 19

Industrial Ethernet Switches

Advantech's industrial Ethernet solutions provide an abundance of product options including managed and unmanaged switches, Gigabit Ethernet switches, PoE switches (IEEE 802.3af and IEEE

Industrial Ethernet Switches

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

Cloud-Managed & Industrial Switches for SMBs

Upgrade your network with Reyee's high-performance switches. Featuring 10G, 2.5G, and 1G Ethernet ports, as well as SFP and SFP+ optical ports. Reyee switches deliver the speed and reliability you

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Managed Network Switches | Industrial Managed Switches

Our industrial-managed switches are known for their quality and performance and are compliant with ECC Class A, CE mark/EMC Class A, EN60950/IEC60950-1, and NEMA TS2-2033. Our fully

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 in unmanaged and managed designs.

Managed Ethernet Switches

Advantech's managed Ethernet switches allow users to expand their industrial network quickly and efficiently, while their rugged industrial-grade design assures reliability and stability. Our managed

4-Port Managed Industrial Gigabit Ethernet Switch, -40° to 75°C, DIN ...

4-port managed switch with dual SFP slots expands your Gigabit Ethernet network in harsh environments, including construction sites, warehouses and factories.

Industrial Fiber Optic Switches

Know everything about hardened network switches also known as industrial grade hardened managed switch or hardened Ethernet switches

Industrial Ethernet Switches – Simple and effective

In order to harmonise the different requirements of communication participants in an industrial network, managed switches from Weidmüller have extensive control

Industrial Ethernet Switches | WAGO

WAGO's industrial Ethernet switches ensure continuous access to machines and systems. Top Features Security Functions Managed/Unmanaged

Managed Switches

IP67-Rated Managed OCTOPUS switches allow fail-safe installation of networks even under the most difficult conditions

Contact Us

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