

Article Overview

A managed ring network switch with 2 optical and 8 electrical ports provides high-speed, redundant, and industrial-grade connectivity suitable for harsh environments.

Key Features

Port Configuration: These switches typically include 8 Gigabit electrical (RJ45) ports and 2 Gigabit optical (SFP or SC) ports, allowing both copper and fiber connections for flexible network deployment (). **Ring Network Support:** They support RSTP or ERPS protocols for ring topology, enabling self-healing networks with fault recovery times often ≤ 20 ms. This ensures continuous communication even if one fiber link fails (). **Management Capabilities:** Being managed switches, they offer Layer 2 or L2+ management, VLAN configuration, QoS, IGMP snooping, port mirroring, and web-based or SNMP management interfaces (). Some models also support static Layer 3 routing for advanced network segmentation (). **Industrial-Grade Design:** These switches are designed for harsh industrial environments, with features such as fanless operation, wide operating temperature ranges (-30°C to 75°C), IP20-IP40 protection, aluminum alloy or metal housings, and resistance to shock, vibration, and electromagnetic interference (). **Optical Bypass Function:** Many models include optical bypass ports, which maintain network connectivity even when the switch loses power, automatically connecting the two optical ports to prevent network interruption (). **Applications:** Ideal for factory automation, intelligent transportation, video surveillance, power, water, oil, mining, and high-speed rail networks, where reliable, high-speed, and redundant connectivity is critical (). **Installation:** Industrial switches often support DIN rail or wall-mount installation, making them suitable for compact or constrained spaces ().

Summary

A 2 optical + 8 electrical managed ring network switch combines high-speed Gigabit connectivity, industrial durability, and self-healing ring network capabilities. It is particularly suited for mission-critical industrial networks requiring redundancy, low-latency recovery, and flexible management. When selecting a model, consider port type, ring protocol support, environmental tolerance, and management features to match your specific industrial application needs.

The Comnet CNGE8MS is an 8-port managed Ethernet switch built to deliver reliable performance in harsh

What are the best managed switches products in 2026? We analyzed 8,511 managed switches reviews to do the



Ring Network Switch 2 Optical 8 Electrical

EL-100-2MA managed 8-Port PROFINET switch with ring functionality system recovers from network

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

Industrial managed Gigabit Ethernet switch (Extended/Managed/Ring) with 8x 10/100/1000TX and 4x

BL168GMP-SFP is a managed industrial Ethernet PoE switch with 2 gigabit

Managed 10/100M Ethernet switch (layer 2) with 6 nos. of RJ45 Ethernet ports and 2 nos. of full-duplex Fiber Optic ports. Star, daisy

The SCALANCE X-200 Industrial Ethernet managed switches permit cost-effective configuration of Industrial Ethernet line, star or

About this item Gigabit 10-Port Configuration -- The network management switch provides 8 10/100/1000Mbps Ethernet ports and 2

The switch can restrict network access by denying packets based on source and destination IP address, TCP/UDP ports or defined

Schneider Electric India. TCSESB083F23F0 - network switch, Modicon Networking, basic managed, 8 ports for copper.

Fully managed 8-port switch with dual SFP slots expands your Gigabit Ethernet network in harsh environments, including

A network switch is a device that enables other devices to communicate, via network cables, and to transfer data between one

Industrial 8 Ports L2 Managed Gigabit PoE Fiber Switch with 4 1000Base-X SFP Slots Layer 2+ Web Management Din Rail Network

Smart switch, 8x 10/100 M12, O-Ring <10ms (ORing TES-3080-M12) ORing's Transporter™ series managed Ethernet switches are

Managed Ethernet switches are in stock and available at Mouser from industry leading manufacturers. Mouser is an authorized



Ring Network Switch 2 Optical 8 Electrical

Web: <https://www.millstraining.co.za>

