

Industrial-grade optical Ethernet switch



Summary of Content

Industrial-grade Ethernet optical switches are rugged, high-performance network devices designed for fiber connectivity, redundancy, and reliable operation in extreme industrial environments.

Key Features

Rugged Design and Environmental Resilience: Industrial optical switches are built to withstand harsh conditions, including extreme temperatures (-40°C to 75°C), high humidity, vibrations, and shocks. They often feature rugged enclosures for heat dissipation and protection against moisture, making them suitable for outdoor, rail, transportation, and remote industrial installations (OT Systems, Perle, Advantech) .

Fiber Connectivity and High-Speed Performance: These switches support multiple fiber ports, including 10Gbps SFP/SFP+ modules, enabling high-speed data transfer, low latency, and scalability for demanding applications such as IP video surveillance, industrial automation, and mission-critical networks (OT Systems, Cisco) .

Redundancy and Reliability: Industrial optical switches incorporate advanced redundancy protocols such as ITU-T G.8032 ERPS (Ethernet Ring Protection Switching), Spanning Tree Protocol (MSTP), and MRP IEC 62439-2 ring protocols, ensuring rapid self-recovery (often

Article Content

Industrial Ethernet Switches

Unmanaged industrial Ethernet switches provide low-cost network connections with options supporting 10/100/1000BaseT, PoE++

Industrial Ethernet Switches

Built for secure industrial automation and a wide range of use cases, these modular switches with Power over Ethernet (PoE) options

Industrial Ethernet Switch Manufacturer & Partner You Can Trust

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

Ethernet Switches | Moxa

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

Industrial Ethernet Switches | Phoenix Contact

Das Portfolio unserer Industrial Ethernet Switches umfasst Managed und Unmanaged Switches mit Gigabit, PoE, Zertifizierung nach

IES82162XMH-S-RP

We provide a full line of EtherXtra multi-channel Ethernet over coax (EoC) and Ethernet over UTP (Cat5) extenders, PoE media

Industrial Ethernet Switches | Phoenix Contact

Industrial unmanaged switches from Phoenix Contact feature variable numbers of ports and a narrow design. We provide

Industrial Ethernet Switches | Managed, L2/L3, PoE, 10G, TSN, Fiber ...

Build resilient industrial networks with managed, unmanaged, PoE, fiber, DIN-rail, Layer 2/3 and 10G Ethernet switches designed for

Cisco Industrial Ethernet 1000 Series Switches

Get reliable, secure connectivity out of the box. Securely connect and power your industrial devices with the compact, rugged IE1000

Industrial Ethernet Switches

Our switches are built for high network flexibility, cyber security and durability and are suitable for use in mission-critical environments.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://benniedesignstudio.co.za>

Email: sales@benniedesignstudio.co.za

Phone: +27 82 391 4765

Address: The Towers, 1 St Georges Mall, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

