Industrial switch with 1 port and 2 optical ports



Overview

Our Industrial Ethernet Switch portfolio comprises Managed and Unmanaged Switches with Gigabit, PoE, IEC 61850 certification, and for DIN rail mounting.

Key Takeaways

Industrial Ethernet switches with 1 optical port and 2 electrical ports provide reliable networking in harsh environments, supporting both fiber and copper connections.

Key Features

Port Configuration: Typically, these switches have 2 RJ-45 electrical ports (10/100Base-TX) and 1 optical fiber port (100Base-FX), allowing integration of fiber optic links with standard Ethernet devices. Data Rate: Electrical ports support 10/100 Mbps with auto-negotiation, full/half duplex, and MDI/MDI-X adaptive functionality. Optical ports support 100 Mbps over SC, FC, ST, or SFP interfaces.

Industrial Design: These switches are designed for harsh environments, with operating temperatures ranging from -40°C to 85°C (UT-2602) or -30°C to 75°C (GL-7012F series), fanless operation, low power consumption, and EMC protection. Installation: Supports DIN-rail or wall-mounted installation, making them suitable for compact control boxes or industrial cabinets. Protection and Reliability: Many models include IP40 protection, surge protection, and reverse polarity protection to prevent damage from electrical faults.

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Plug-and-

Play Operation: These switches are often unmanaged, providing simple plug-and-play connectivity without complex configuration, ideal for industrial automation and smart building applications.

Applications

Smart Buildings: Connecting fiber backbones to desktop or network devices. Industrial Automation: Linking PLCs, sensors, and control systems in power plants, rail transit, or mining operations.

Fiber-to-

Desktop Solutions: Extending network reach over long distances using fiber while maintaining copper connections for local devices. Example ModelsUT-2602: 1 fiber port + 2 RJ-45 ports, operating temperature -40°C to 85°C, DIN-rail/wall mount, fanless design. GL-7012F Series: 1 optical port + 2 electrical ports, operating temperature -30°C to 75°C, IP40 protection, SC/FC/ST/SFP optical options.

These switches provide a robust, compact, and reliable solution for industrial networking where both fiber and copper connectivity are required, ensuring stable operation in extreme conditions.

Article Content

Ethernet Switches

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

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.

UT-2602 Industrial 10/100M 2 Ethernet Ports 1 Optic

It supports industrial standard DIN-Rail installation or wall-mounted installation, which meets the different industrial network requirements. UT-2602 is widely

High Quality 1 Fiber Optical Port RJ45 2 Ports Network

The 1 optical port+ 2 electrical ports 100M industrial Ethernet switch has 2*10/100M adaptive RJ45 ports and 1 155M standard 1X9 optical port. The switch adopts

Cisco Industrial Ethernet 1000 Series Switches

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Securely connect and power your industrial devices with the compact, rugged IE1000 Series Switches that are engineered for harsh environments and diverse

Industrial Ethernet Switches

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

MikroTik · Switches

With 16 Gigabit Ethernet ports and 2 SFP+ 10G uplink ports, you get all the connectivity you need without unnecessary bulk. Stack two units side by side in a

Gigabit 1 Optical Port 2 Electrical Port Industrial Ethernet Switch (GL ...

2 Gigabit electrical ports + 1 Gigabit FX optical port industrial Ethernet switch, supporting 2 100Base-T/1000Base-TX electrical ports and 1 1000Base-X optical port.

Industrial Ethernet Switches | WAGO

The WAGO Industrial Eco Switch (Item No. 852-2112) is the ideal solution for modern automation applications that require cost-effective, space-saving

How to Choose a 100/1000 Fiber Optic Ethernet Switch

Compare industrial vs. commercial 100/1000 fiber switches by port count, SFP support, PoE++, ruggedization, and AI management—plus pricing and supplier insights for B2B buyers.

Teltonika Tsw200 8 Port Unmanaged Industrial Gigabit Poe+ Switch

Teltonika TSW200 is industrial unmanaged Gigabit switch from Teltonika Networks. Teltonika TSW200 is equipped with 2 SFP ports for long-range Fiber-optic communication and 8 Gigabit Ethernet ports

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Industrial Ethernet Switches | Industrial Network Switch | Perle

Rugged Industrial Ethernet Switches with PoE, 5–10 ports, 10/100/1000Base-T and fiber support. Built to withstand -40°C to 75°C, shocks and vibration.

Industrial PoE++ Switch Audit: Validating True 802.3bt Hardware vs ...

Per-Port Electrical and Optical Isolation Auditing Industrial environments are heavily plagued by severe electromagnetic interference (EMI), variable ground loops, and high-voltage

Smart Store Teltonika Tsw212 Din Rail Mountable Managed Switch

Teltonika TSW212 DIN Rail Mountable Managed Switch 8 x 10/100/1000 Mbps ETH-ports switch with 2 x SFP. The TSW212 is an L2 Teltonika Networks managed switch with additional L3 features, like

Phoenix Contact 2891097 Industrial Ethernet Switch, 8 Port,

Overview: Phoenix Contact''s new SFN (Narrow) switches use 3rd generation switch technology to lower installed costs by up to 70% when compared with current market offerings. The new SFN 5- and 8

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