

Industrial managed switches



AI Overview

Managed industrial switches are rugged, configurable network devices designed to ensure reliable, secure, and high-performance connectivity in harsh industrial environments.

Overview Managed industrial switches are specialized Ethernet switches built for industrial automation, transportation, energy, and outdoor applications. Unlike unmanaged switches, they allow full network control, including configuration, monitoring, and troubleshooting, which is critical for maintaining uptime and performance in demanding environments.

Key Features

- Rugged Design:** Engineered to withstand extreme temperatures (often -40°C to $+75^{\circ}\text{C}$), vibration, and humidity, ensuring reliable operation in factories, railways, oil and gas, and mining.
- Network Management:** Support for Layer 2 and Layer 3 protocols, VLANs, QoS, SNMP monitoring, and remote management through platforms like Cisco Catalyst Center, Meraki, or Perle NMS.
- Industrial Protocol Support:** Compatible with industrial communication standards such as PROFINET, Modbus TCP, and IEC 61850, enabling seamless integration with PLCs, SCADA, and HMI systems.
- Redundancy and Resilience:** Features like MRP (IEC 62439-2) ring topology, rapid failover, and redundant power inputs minimize downtime and maintain continuous network operation.
- Security:** Advanced security measures including microsegmentation, zero-trust access, and IEEE-standard protocols protect critical industrial networks from cyber threats.
- Power over Ethernet (PoE):** Many models provide PoE or PoE++ to power devices such as IP cameras, sensors, and wireless access points directly through the network cable.

Applications Managed industrial switches are widely used in:

- Factory Automation:** Connecting PLCs, sensors, and robotic systems for real-time control and monitoring.
- Transportation Systems:** Rail, ITS, and maritime networks requiring high reliability and low-latency communication.
- Energy and Utilities:** Grid substations, renewable energy plants, and oil & gas facilities where network uptime...

Article Content

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.

IMS-1608 Industrial Gigabit Ethernet Managed PoE Switch

IMS-1608 is a rugged industrial managed Ethernet switch designed for reliable operation in harsh environments. It provides secure data, voice and video communication for industrial networks and

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.

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.

Industrial Ethernet Switches – Einfach und effektiv

Unsere Ethernet-Switches sind für den Einsatz in industriellen Umgebungen konzipiert. Sie sind robust, stoßfest und temperaturbeständig. Alle Produkte erfüllen dabei die höchsten Anforderungen an eine

Industrial Switch: Understanding Industrial Ethernet

Types of Industrial Ethernet Switches include: Unmanaged switches Managed switches PoE switches Rackmount switches Railway Ethernet switches

Managed Ethernet-Switch – Funktionen

Administration und Diagnose, Verfügbarkeit, Sicherheit, Datenübertragung und Performance: Alle Funktionen des Industrial-Managed-Switches im Überblick.

SCALANCE

SCALANCE-Netzwerkkomponenten bilden die Grundlage für Kommunikationsnetzwerke in der Fertigungs- und Prozessautomatisierung. Sie wurden speziell für den Einsatz in industriellen

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

Industrial Ethernet Switches Advantech's industrial Ethernet solutions provide an abundance of product options including managed and unmanaged switches,

Foxboro A2H124-24FX Enterasys Managed Industrial Ethernet Switches

Foxboro A2H124-24FX Industrial Ethernet Switch Configured for high-density fiber connectivity in industrial control networks, the Foxboro A2H124-24FX (P0973BJ Industrial Switch) provides direct

Managed Switches

Rack Mount Ruggedized managed Ethernet switches engineered for reliable performance in industrial environments

TRENDnet TI-RP262i 26-Port Industrial Rackmount PoE+ Gigabit L2 Managed ...

Bereits ab 629,90 € Große Shopvielfalt Testberichte & Meinungen | Jetzt TRENDnet TI-RP262i 26-Port Industrial Rackmount PoE+ Gigabit L2 Managed Switch (TI-RP262I) günstig kaufen bei idealo

Managed Industrial DIN-Rail 8-Port Gigabit Ethernet + 4-Port Gigabit ...

Diese Produktserie zeichnet sich durch ein industrielles DIN-Schienen-Design aus. Der Managed Gigabit Redundant Ethernet Switch mit 8 elektrischen und 4 optischen Ports repräsentiert eine neue

MANAGED POE INDUSTRIAL SWITCH CHS4412-8GT-125 8-PORT

CHS4412-8GT-125 is an industrial, managed Gigabit PoE switch from Dahua with 8 RJ45 PoE ports and 4 SFP uplink ports. The device supports both managed and unmanaged modes, local Web-based

Industrielle Netzwerk Switche | Industrielle

Die industriellen Ethernet-Switches von Westermo sind für zuverlässige und sichere Kommunikation in rauen und anspruchsvollen Umgebungen ausgelegt. Sie

Redundancy and Link Aggregation in Industrial

Network Redundancy and Link Aggregation are essential features of managed industrial switches eliminates this single point of failure by providing

D-Link DIS-210G-06 6-Port Smart Managed Gigabit Industrial Switch

Bereits ab 209,19 € Große Shopvielfalt Testberichte & Meinungen | Jetzt D-Link DIS-210G-06 6-Port Smart Managed Gigabit Industrial Switch (DIS-210G-06) günstig kaufen bei idealo

TRENDnet TI-G160i 16-Port Gigabit L2 Managed Industrial DIN-Rail Switch ...

TRENDnet, TI-G160i, 16-Port industrieller Gigabit L2 Managed DIN-Rail Switch, Layer 2 Switch, 16 x Gigabit Ports, 32Gbps Switching-Kapazität 411,95 €

Siemens 6GK53244GG004JR2 Ethernet Switch, Managed, 22 Port

The SCALANCE X-200 Industrial Ethernet managed switches permit cost-effective configuration of Industrial Ethernet line, star or ring topologies. The possibility to create redundant rings makes it the

D-Link DIS-210G-06P 6-Port Industrial Smart Managed Gigabit PoE+ Switch ...

Bereits ab 257,30 € Große Shopvielfalt Testberichte & Meinungen | Jetzt D-Link DIS-210G-06P 6-Port Industrial Smart Managed Gigabit PoE+ Switch (DIS-210G-06P) günstig kaufen bei idealo

All Switches Products

Cisco has a comprehensive portfolio of network switches and switching solutions for enterprise networks, data centers and small businesses. Learn more.

Managed Layer 3 Industrial Ethernet Switches

Explore Westermo Layer 3 industrial Ethernet switches for advanced routing and secure managed networks. Find the right model.

Industrial Ethernet Switches | Phoenix Contact

Das Portfolio unserer Industrial Ethernet Switches umfasst Managed und Unmanaged Switches mit Gigabit, PoE, Zertifizierung nach IEC 61850 und zur

3onedata | Industrial Communication Solutions

3onedata is a leading supplier of industrial communication solutions, we have been dedicated to IIoT for over 20 years. Our main products include industrial Ethernet

Hirschmann

Hirschmann In today's fast-moving industrial world, your network needs more than just connectivity - it demands reliability, security, and seamless efficiency. That's

Industrial Ethernet Switches

Built to endure the demanding conditions of factories, transportation infrastructure, grid substations, and other harsh environments, Cisco Industrial Ethernet switches come in a wide range of form factors to

Industrial Switches

16-Port Industrial Gigabit L2 Managed DIN-Rail Switch TI-G160i (Version V2) MORE INFO FIND RETAILERS Add to cart

Contact Us

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

Website: <https://www.tomor.eu>

Email: info@tomor.eu

Phone: +49 69 2381 5497

Address: Am Hauptbahnhof 10, 60329 Frankfurt am Main, Germany

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