

Industrial-grade Ethernet switches



AI Overview

Industrial-grade Ethernet switches are rugged, high-performance network devices designed for harsh environments, offering managed/unmanaged options, PoE support, redundancy, and advanced security for mission-critical industrial applications.

Key Features

Rugged Design and Environmental Tolerance: Industrial Ethernet switches are built to withstand extreme temperatures, vibrations, shocks, and humidity, typically ranging from -40°C to 75°C , making them suitable for factories, transportation systems, substations, and outdoor installations (FS, Phoenix Contact, Cisco). Many switches are DIN-rail or rack-mountable for flexible deployment .

Managed vs Unmanaged: Managed switches provide advanced network control, monitoring, VLAN segmentation, QoS, and redundancy protocols, while unmanaged switches offer plug-and-play simplicity for smaller or less complex networks (Moxa, Advantech, Phoenix Contact), .

Power over Ethernet (PoE): Many industrial switches support high-wattage PoE (IEEE 802.3af/at) to power devices like IP cameras, sensors, and wireless access points directly through Ethernet cables, reducing cabling complexity and installation costs (Cisco, Advantech), .

Network Redundancy and Reliability: Industrial switches often include redundancy protocols such as RSTP, MSTP, or proprietary ring protocols to ensure continuous op...

Article Content

Nov 05, 2025

What is an Industrial Ethernet Switch?

An Industrial Ethernet Switch is a ruggedized switch designed to provide reliable, high-speed network connectivity in harsh industrial

Aug 29, 2025

Industrial Switches (ISW) | Extreme Networks

ISW switches provide intelligent Layer 2 switching including Spanning Tree (STP, RSTP, MSTP), resilient LACP and advanced

May 11, 2026

Cisco Industrial Ethernet switches

Built to endure the demanding conditions of factories, transportation infrastructure, grid substations, and

Jul 12, 2026

Industrial Ethernet Switches

Customers want an Ethernet switch that can be used in a variety of locations for improved flexibility and

May 05, 2026

Industrial Ethernet Switches

FS Industrial Ethernet Switches with robust design for harsh industrial and outdoor environments subject to vibrations, shocks and

Apr 19, 2026

Industrial Ethernet Switches

Westermo industrial Ethernet switches are designed to deliver reliable and secure communication in harsh and demanding

Nov 21, 2025

Layer 3 Managed Switches

Moxa's Layer 3 managed switches feature industrial-grade reliability, multicast availability, and security enhancements based on the

Dec 11, 2025

Industrial Ethernet Switches | EtherWAN

Industrial Ethernet switches offer advanced management features with the redundancy and security elements required for essential

Feb 15, 2026

Guide to implementing Industrial Grade Switches

However, implementing industrial grade switches is a complex process that requires careful

Jun 09, 2026

Industrial Switches (ISW) | Extreme Networks

Extreme Industrial Switches are a family of ruggedized Layer 2 switches designed to operate under harsh environments and

Jul 09, 2026

Industrial Switches | Industrial Ethernet Switches | Antaira

Industrial Ethernet Switches Antaira offers a variety of industrial Ethernet switches, including industrial-grade network switches, DIN

Sep 13, 2025

Industrial Ethernet Switches | Eaton

Tripp Lite's industrial-grade network switches expand Gigabit Ethernet connectivity to factory floors and other environments with

Dec 31, 2025

Cisco Industrial Ethernet 1000 Series Switches

Keep your industrial operations running smoothly with secure, compact, Power over Ethernet (PoE)-enabled, and easy-to-manage

Jun 16, 2026

Industrial Switches | D-Link

The switches are designed to easily handle hot and cold temperature variances,* and can cold start at their coldest temperatures.

Jan 07, 2026

Industrial Ethernet Switches

Our ethernet network switches are built with industrial grade components, tested in-house & certified for reliable operation in harsh

Jun 28, 2026

Industrial Ethernet Switches | WAGO

Industrial Switches WAGO's switch portfolio provides scalable Ethernet network infrastructure with excellent electrical and

Jan 12, 2026

Industrial Ethernet Switches

Our managed Ethernet switches, fiber switches, and router switches provide fast Ethernet and gigabit

Oct 24, 2025

Industrial Ethernet Switches | Industrial Network Switch | Perle

Industrial-grade Ethernet Switches are specifically designed to connect devices in network environments that are subject to extreme

Jul 12, 2026

Unmanaged Industrial Ethernet Switches | Rugged DIN Rail Switch

Unmanaged Industrial Ethernet Switches Compact DIN Rail Switches Industrial-grade Unmanaged Switches are "plug & play"

Sep 18, 2025

Industrial Network Switches | Industrial Ethernet Switches

Industrial network switches operate in rugged environments & high temperatures. Use our trusted hardened ethernet switches to

Mar 30, 2026

Industrial Ethernet Switches | Phoenix Contact

Das Portfolio unserer Industrial Ethernet Switches umfasst Managed und Unmanaged Switches mit

Mar 18, 2026

Industrial Network Products

Our Stratix® 5800 High Performance Industrial Ethernet Switches offer gigabit performance and support copper, fiber and PoE

Aug 23, 2025

Cisco Industrial Ethernet Switching Portfolio Brochure

The Cisco IE switching portfolio offers ruggedized, secure, easy-to-use switches that bring proven IT proficiencies to harsh industrial

Mar 13, 2026

Industrial Ethernet Switches

Advantech's industrial Ethernet switch solutions provide an abundance of options, including Gigabit Ethernet switches.

Dec 08, 2025

Durable Industrial Switches

D-Link's Industrial Switches have industrial-grade resilience to maintain your network uptime despite

Oct 14, 2025

Industrial Ethernet Switches with 8/16/24 Ports for

FS Industrial Ethernet Switches with robust design for harsh industrial and outdoor environments subject to

Jan 26, 2026

Industrial Ethernet Switches | Phoenix Contact

Our Industrial Ethernet Switch portfolio comprises Managed and Unmanaged Switches with Gigabit, PoE, IEC 61850 certification,

Contact Us

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