

Industrial-grade PoE network switches



AI Overview

Industrial-grade PoE switches deliver both data and power to devices in harsh environments, supporting high PoE output, ruggedized design, and advanced network management.

Key Features

- Power over Ethernet (PoE) Standards:** Industrial PoE switches support IEEE 802.3af/at and the latest 802.3bt (PoE++) standards, providing up to 90W per port for high-power devices. This allows devices like IP cameras, wireless access points, and industrial sensors to operate without separate power supplies.
- Ruggedized Design:** These switches are built to withstand extreme conditions, including wide temperature ranges (typically -40°C to 85°C), shock, vibration, and dust or water ingress. Many models feature aluminum or metal shells and surge protection up to 6 kV per port.
- Port Configurations:** Industrial switches come in various port counts, from compact 4-port models to larger 24- or 52-port units. They often include a mix of RJ45 and SFP ports for flexible connectivity.
- Management and Security:** Managed industrial PoE switches provide advanced features such as VLAN segmentation, QoS policies, Rapid Ring Protection Protocol, Spanning Tree, and network monitoring tools. Unmanaged models offer plug-and-play simplicity for smaller deployments.
- Power Redundancy and Reliability:** Many industrial switches support dual or triple power inputs (DC48-57V) to ensure uninterrupted operation in critical applications. Smart PoE management allows monitoring and controlling power allocation to connected devices, optimizing energy use and preventing overloads.

Use Cases

- Industrial Automation:** Powering sensors, controllers, and cameras in factories or production lines.
- Surveillance Systems:** Supplying power and data to IP cameras in tunnels, highways, or outdoor installations.
- Transportation and Utilities:** Supporting networked devices in harsh environments with vibration, temperature extremes, or electrical surges.
- Smart Buildings:** Connecting access points, VoIP phones, and security devices efficiently.

Examples of...

Article Content

Ethernet Switches

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

AMG570 Industrial Managed PoE Ethernet Network Switch

The AMG570 Series of Industrial Managed switches support 100Mb, 1Gb or 10Gb Ethernet, with port counts from 4-52, and with optional 30W, 60 or 90W PoE

Comnet | Industrial Networking Solutions

Comnet has Industrial Ethernet switches, media converters & secure networking solutions for mission critical infrastructure worldwide.

Commercial vs. Industrial PoE Switches: What's the Difference for

Deploying IP surveillance in heavy-duty environments requires a network backbone that resists extreme temperatures, electrical surges, and constant vibration. While commercial switches excel in climate

L2+ Managed Industrial 8-Port 1000T 802.3at PoE + 4

The UTP UF-MIS6408GP-2FBP is the highly reliable managed industrial Bypass PoE switch with 8-port 10/100/1000-T PoE, 4-port 1G/2.5GBase-X fiber SFP and

Industrial Networking Products & Communication

Industrial Ethernet Switches Our industrial network switches include Layer 3/2 managed/unmanaged, PoE, DIN-rail, and Industrial 10G switches, ensuring

Network Switches | PoE, PoE+ & PoE++ for Enterprise

Lantronix PoE switches power and connect devices like IP cameras, access points, and digital signage—all over a single Ethernet cable. Available in enterprise and

WAGO Expands Ethernet Lineup with Long-Reach, PoE, Cost-Saving ...

Burlington, Ont. – June 2026 – WAGO has expanded its industrial networking portfolio with three new additions to its proven 852 Series Ethernet Switch family. Designed to support the growing demands

PUSR 5/8 Port Ethernet Switch 100/1000Mbps Gigabit RJ45 IP40

Industrial Grade Quality, Lighting Protection 6KV With industrial lightning protection component for both power supply and network interface, the switches can effectively prevent the device from being

Mini Industrial 5-Port Gigabit Ethernet Switch Review

It also pairs well with compact, high-performance mini PCs like the fanless Intel-based units with dual Ethernet for robust connectivity. Compact Hardened Design Because it packs

Industrial-Grade POE Switch | industrial network switch

An industrial PoE switch is a network device specifically designed for harsh industrial environments. Its core function is to transmit both data and power

Industrial Ethernet Switches

Workhorses for a broad spectrum of industrial needs, these modular switches feature high-wattage PoE options, high-speed 10-GE uplinks, and advanced network security capabilities.

Finding the best network switch: 12 top brands for 2025

Looking for the best network switch? Compare top brands for performance, security, and scalability. Find the right switch to keep your

HPE Aruba Networking CX switches

HPE Aruba Networking CX 6300 Switch Series Layer 3 stackable access and aggregation switches with Multi-Gigabit Ethernet, High Power PoE, and up to

SCALANCE

SCALANCE network components form the basis of communication networks in manufacturing and process automation. Specially designed for use in industrial

Cisco Industrial Ethernet 4010 Series Switches Data Sheet

Cisco® Industrial Ethernet (IE) 4010 Series Switches with 28 Gigabit Ethernet interfaces are high-performance ruggedized, rack mount Layer2 and 3

Industrial Gigabit Ethernet Switch DIN Rail 2 SC Fiber 4 Port PoE ...

The Industrial Gigabit 2 SC Fiber 4 Port PoE Switch is engineered for demanding industrial networking applications that require reliable power delivery and long-distance fiber communication.

Industrial Ethernet Switches | WAGO

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

Cisco IE-2000 Industrial PoE Managed Switch 16-Port Fast Ethernet

Rugged 16-port PoE managed switch with Gigabit SFP uplinks for industrial networks. Features 120W PoE budget, IEEE 802.3af support, and LAN Base software.

Industrial PoE Switches & Solutions

Advantech's PoE products are easy to install and deliver reliable remote power to your devices, thus offering an industrial-grade or an outdoor poe switch with a

MikroTik · Products

MikroTik makes networking hardware and software, which is used in nearly all countries of the world. Our mission is to make existing Internet technologies

Modbus_POE_ETH_IO_8CH Overview | WaveShare

Modbus POE ETH IO 8CH This product is an industrial-grade 8DI / 8DO isolated digital input/output module controlled via dual Ethernet interfaces. It supports

Cudy IG1005P 5-Port Gigabit Industrial PoE+ Switch

Industrial-grade gigabit PoE+ switch delivers reliable networking in harsh environments This industrial PoE+ switch provides high-performance gigabit

Industrial Switches (ISW) | Extreme Networks

They provide continuous uptime, manageability, and operational efficiency. With flexible PoE options of IEEE 802.3af, 802.3at and 802.3bt supporting up to 90W PoE per port, each switch offers the

Industrial PoE Switches | PoE Industrial Switch

When PoE switches are designed for use in harsh or extreme environmental conditions, such as industrial automation, military, marine, mining, oil-and-gas, or railway applications, the device may be

Industrial Ethernet Switches

Provides an overview of deploying PoE in an industrial environment, exploring how this sector can benefit from PoE technology and describing the

Industrial Network Switch

As the industrial network switch market matures, analysts expect the managed tier to exceed 70% share by mid-decade, reinforcing the shift toward centrally orchestrated, API-driven fabrics.

Contact Us

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