

Industrial switches with Wi-Fi



AI Overview

Industrial Wi-Fi switches are ruggedized network devices designed to provide reliable wired and wireless connectivity in harsh industrial environments, supporting high-performance communication, PoE, and integration with industrial protocols.

Overview Industrial Wi-Fi switches combine the functionality of traditional Ethernet switches with wireless access capabilities, enabling seamless connectivity for industrial devices such as sensors, cameras, automated guided vehicles (AGVs), and IoT endpoints. They are engineered to withstand extreme temperatures, vibration, dust, and moisture, making them suitable for manufacturing plants, energy facilities, transportation systems, and smart city applications.

Key Features

- Rugged Design:** Industrial switches are built to operate in harsh conditions, often meeting certifications like EN50155 or IEC 61850.
- PoE Support:** Many models provide Power over Ethernet (PoE) up to 90W per port, powering devices like wireless access points and surveillance cameras without additional cabling.
- High-Speed Connectivity:** Modern industrial switches support multi-gigabit Ethernet, fiber/copper ports, and Layer 2/Layer 3 switching for high-performance networks.
- Wireless Integration:** Industrial Wi-Fi switches often include Wi-Fi 6 or Wi-Fi 7 access points, enabling high client density, low latency, and real-time communication for industrial automation.
- Network Redundancy and Security:** Features like full redundant ring technology, MACsec encryption, and VPN/firewall integration ensure high availability and secure communication.
- Management and Automation:** Many switches support zero-touch provisioning, Fabric Connect integration, and remote monitoring for simplified deployment and maintenance.

Leading Solutions

- Siemens SCALANCE:** Offers compact and rackmount switches (X-000 to X-500), industrial routers, and Wi-Fi 6 access points for real-time PROFINET communication and secure OT/IT integration.
- Extreme Networks ISW Series:** Rugged Layer 2 switches with PoE, Fabric Attach for automate...

Article Content

Industrial Ethernet Switches | WAGO

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

Industrial Ethernet Switches

Built to endure the demanding conditions of factories, transportation infrastructure, grid substations, and other harsh environments, Cisco Industrial Ethernet

Brainboxes | Trusted Connectivity: Switches, IoT, Serial,

Trusted UK manufacturer of industrial data connectivity. Upgrade: rugged Industrial Ethernet switches, IoT, serial converters & IO. Lifetime warranty & support

Industrial WiFi Ethernet Switch | Ethernet Switch with Wireless Access ...

Industrial WiFi Ethernet switches combining wired switch ports and wireless access points in one rugged device. Ideal for factory, mobile, and outdoor networks. OEM & wholesale supply from manufacturer.

Smart Home, SMB and Enterprise solutions | D-Link

From Smart home security cameras, smart plugs, Wi-Fi routers and range extenders to Enterprise grade networking, wireless LAN and surveillance solutions.

Industrial Switches for Universal outdoor wireless

From city-wide access to tailored experiences, wireless coverage needs to be universal – providing seamless connectivity in outdoor locations across every town and city. Whatever size of city-wide Wi

Ethernet Switches

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

Cisco Industrial Wireless

Break through barriers with Cisco Industrial Wireless solutions, no matter how challenging the environment or how tough your applications' requirements are.

Industrial Ethernet Switches – Simple and effective

In order to harmonise the different requirements of communication participants in an industrial network, managed switches from Weidmüller have extensive control

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

RUCKUS Networks -

RUCKUS solutions power smarter, safer, and scalable connectivity High performance Wi Fi, switching, and network management for demanding

Industrial Ethernet Switches with 8/16/24 Ports for

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

Industrial IoT Networking

Build a secure industrial IoT network foundation with market-leading Cisco industrial switches, industrial routers, industrial wireless, and industrial compute.

Ruckus Networks on the move again, this time acquired

Belden gains Wi-Fi and enterprise switching products in the deal and adds to its existing portfolio of passive networking infrastructure, OT wireless,

SCALANCE

Find the perfect connection for every industrial application – from the automotive and chemical industries to the manufacturing and process industries. These solutions

WLAN AP/Bridge/Client

Moxa's extensive collection of industrial-grade wireless 3-in-1 AP/bridge/client products combine a rugged casing with high-performance Wi-Fi connectivity to

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

Advantech Industrial Intelligent Connectivity Solutions

Advantech provides complete industrial communication products from industrial switches, fiber and PoE media converters, to industrial gateways,

Contact Us

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