

# Are industrial switches secure



## Overview

Industrial switches offer sophisticated access control mechanisms to restrict unauthorized access to network resources. 1X authentication, port security, and MAC address filtering allow administrators to ensure that only trusted devices can connect to the. DIN rail mounting allows switches to be secured properly within panels alongside PLCs, power supplies, and IO. This mounting method is not just about convenience. The Cisco solution overcomes top customer barriers to. Once adversaries breach a network, they can use many cyber-attack methods to access remote systems, such as cloud-based IP surveillance, or local assets, such as intelligent industrial Ethernet switches. Have you ever wondered how industrial operations can remain secure in an age where cyber threats are rampant?

With over 35 years of expertise in industrial automation, Moxa is proud to be one of the first companies globally to achieve both IEC 62443-4-1 certification for our secure development life-cycle (SDL) and IEC 62443-4-2 certification for a range of our networking products. These prestigious. Industrial Ethernet switches are ruggedized network devices designed to provide reliable, secure, and high-performance Ethernet connectivity in harsh industrial environments. They enable robust communication among industrial devices, improving network uptime, scalability, and security, crucial for.



## Article Content

### Industrial Network Security | Moxa

Trust our secure networking solutions—switches, routers, firewalls, and network management software—to help you build a resilient and secure industrial network

### Enhancing Network Security with FS Industrial Switches

Discover how FS industrial switches enhance industrial network security. Learn about VLAN, ACLs, IPsec, and industry-specific safeguards to

### Industrial Unmanaged Switches Explained: Reliability, Scale, and ...

Unmanaged switches play a critical role in OT networks. Learn how they affect reliability, scalability, troubleshooting, and cybersecurity on the plant floor.

### The power of managed Ethernet switches in industrial

Managed Ethernet switches can provide defense in depth, a concept incorporated into and formalized in the ISA/IEC 62443 series of standards that define

### Industrial Switches Protect Against a Cyber Attack | Antaira

Any Ethernet switch attached to an industrial network is a target for cybercriminals. Ensuring the cybersecurity of a network switch will potentially protect your entire IP surveillance system from

### Top Industrial Network Switch For Smart Automation in

An Industrial Network Switch ensures reliable, scalable, and secure data communication in harsh environments, vital for industrial automation and IIoT.

### Collaborative protection of industrial switches and industrial network ...

In the era of Industrial Internet, as the core equipment of industrial network, industrial switches not only bear the heavy responsibility of data transmission, but also must ensure the security of the network in

### Industrial Switch: Advantages and Different Types

Industrial Ethernet switches provide critical services for secure networks in harsh environments. This article explains their key advantages and

### What is an industrial switch? And what are the differences between it ...

July 18, 2025 What is an industrial switch? And what are the differences between it and an ordinary switch? In modern factories, robotic arms precisely grasp components, AGV trolleys shuttle along

### Enhancing Network Security with FS Industrial Switches

FS industrial switches are designed with a comprehensive suite of security features that enhance connectivity and fortify networks against potential

What Are Industrial Ethernet Switches and How Do They Enhance ...

Industrial Ethernet switches embed security features like IEEE 802.1X authentication, Secure Shell (SSH), firewall capabilities, VLAN segmentation, and network access control.

How do industrial switches contribute to network security?

Industrial switches offer sophisticated access control mechanisms to restrict unauthorized access to network resources. Features such as 802.1X authentication, port security, and MAC address filtering

Harness the Power of Networking to Secure Industrial Operations

Embedding security capabilities into industrial network equipment is the best option to simplify deployment, make it scalable, and enable you to see more. Look for industrial switches and routers

Guide to implementing Industrial Grade Switches

Industrial switches are used in industrial applications such as automotive, industrial automation, process control, and transportation. These

Collaborative protection of industrial switches and industrial network ...

By using the firewall function of industrial switches and implementing network security policies, it is possible to achieve network security isolation, traffic control, audit, and defense functions,

Cybersecurity | Industry 4.0 | Industrial Switches | Antaira

Antaira provides a hardened line of managed and unmanaged industrial Ethernet switches to its customers to help them with new technologies and create scalable, secure, and reliable networks

The top 5 reasons to avoid unmanaged switches on

What many manufacturers don't know is that managed switches can protect against major security risks, guarantee your machine performs its best,

Industrial Switches for Military, Government, and

Government industrial switches are essential in securing sensitive communication and data systems, from security camera networks to public safety

Industrial Switches: Everything You Need to Know

Industrial switches are responsible for ensuring that data being sent to a device is reliable, secure, and arrives intact. The process in which industrial switches

## Types of Industrial Grade Network Switches

Learn about L2 and L3 Industrial Grade Network Switches, PoE vs non-PoE types, and how to choose the right rugged switch for your

## Understanding the Role of an Industrial Network Switch

Explore the essential role of industrial network switches in modern infrastructure. Discover unmanaged and managed Ethernet switch solutions,

## Industrial Switches Protect Against a Cyber Attack | Antaira

For that reason, only purchase industrial Ethernet switches from reliable, trustworthy manufacturers, and make sure they are installed by a qualified, experienced professional. Low-priced, industrial network

## Industrial Unmanaged Switches Explained: Reliability, Scale, and ...

The physical design of an industrial switch is just as important as its electrical characteristics. DIN rail mounting allows switches to be secured properly within panels alongside PLCs, power supplies, and IO.

## How to pick the right Industrial Ethernet Switch for

Industrial Layer 2 Managed Switches or Layer 2+ Switches are designed to operate at extreme temperatures up to -40 to 75°C (-40 to 167°F) and in areas with

## How to pick the right Industrial Ethernet Switch for

Industrial Ethernet switches are comprised of managed and unmanaged switches with Gigabit, PoE, and various industry certifications. Featured industrial-grade

## What Are Industrial Ethernet Switches and How Do They Enhance ...

Industrial Ethernet switches are ruggedized network devices designed to provide reliable, secure, and high-performance Ethernet connectivity in harsh industrial environments. They enable

## Products

Learn how industrial network equipment can be used to enable a full range of advanced security capabilities to protect your operations and bring simplicity, ease of deployment, and cost

## Industrial Switches for Military, Government, and

By providing secure communication networks, industrial Ethernet switches protect sensitive data from unauthorized access. Whether it's a military

## Networking and Security in Industrial Automation Environments

The solution provides a proven and validated blueprint for connecting Industrial Automation and Control Systems (IACS) and production assets, improving industrial security, and

## Contact Us

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