

How to Use Industrial Network Switches



Summary of Content

Proper installation, configuration, and monitoring of industrial network switches ensure reliable, secure, and efficient network operation in industrial environments.

Installation Guidelines

Mounting and Placement: Industrial switches can be rack-mounted or DIN-rail mounted. For DIN-rail switches, attach the mounting clips and slide the switch onto the rail, ensuring it is secure. For rack-mounted switches, use the provided brackets and screws, ensuring adequate ventilation and access to power outlets . Install the device in a vertical position and avoid locations with flammable gases or extreme environmental hazards . **Power and Grounding:** Verify the power supply voltage and polarity before connecting. Ground the switch using the designated ground screw or drain wire to ensure optimal noise immunity and safety . Only qualified personnel should handle electrical connections and grounding. **Cabling:** Use appropriate cables (e.g., Cat5e or higher for Ethernet) and ensure connections comply with technical specifications. For PoE switches, connect powered devices using twisted-pair cables to supply both data and power .

Configuration Steps



Article Content

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A field engineer's guide to choosing industrial ethernet switches for harsh environments. Covers DIN-rail mounting,

How to Choose and Deploy the Right Industrial Ethernet Switch

Antaira Technologies, a global leader in industrial networking solutions, presents this engineering guide to help plant

Introduction to Network Switches for Industrial Applications

Industrial network switches connect automation equipment, controllers, and other such devices. Learn about

Cisco Industrial Ethernet Switches Demos

Learn the common methods you can use to onboard industrial Ethernet switches—from manual to fully automated using plug and

Ultimate Guide to Industrial Network Switch Tips and Best Practices

Industrial network switches play a crucial role in maintaining connectivity in demanding environments. They are designed to

What is an Industrial Switch? Industrial Ethernet Switch Guide 2026

This 2026 guide provides a comprehensive technical understanding of what industrial switches are, how they work,

A Complete Guide to Industrial Network Switches for Industries

This blog is your comprehensive guide to understanding how industrial switches work, the difference between

How to Install Industrial Switches: A Comprehensive Guide

Industrial switches are vital for robust network connectivity in industrial environments. Proper installation ensures optimal

Industrial Network Switch Strategy for PLC Networks

Learn when to move from unmanaged to managed switches, how VLANs improve PLC networks, and how to design

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