

Industrial Switches Cisco



Overview

Cisco Industrial Ethernet Switches Cisco Industrial Ethernet Switches are designed to withstand extreme conditions.

Key Takeaways

Cisco Industrial Ethernet switches provide rugged, secure, and high-performance networking solutions for harsh industrial environments. Overview

Cisco Industrial Ethernet (IE) switches are designed to operate reliably in demanding industrial conditions such as factories, transportation systems, and energy grids. They offer high resilience, advanced security, and AI-ready capabilities, enabling seamless integration of IT and OT networks. These switches support high-speed 10-GE uplinks, high-wattage PoE options, ultra-low jitter, and device-to-cloud monitoring to optimize production, reduce downtime, and enhance operational efficiency (Cisco) .

Key Features

- **Rugged Design:** Built to withstand extreme temperatures, vibration, and dust in industrial settings.
- **Power over Ethernet (PoE):** Supports powering devices like cameras, sensors, and access points directly through the network cable.
- **Security:** Includes microsegmentation, zero-trust remote access, and Cisco TrustSec for network segmentation and protection.

- Management: Can be managed via Cisco Catalyst Center or Cisco Meraki, offering centralized monitoring and configuration.

- Flexible Form Factors: Available as modular, compact, and DIN-rail mountable switches to fit space-constrained locations (Cisco) .

Popular Series IE1000 Series

- Compact DIN-rail switches ideal for harsh industrial environments.
- Plug-and-play deployment with GUI-based configuration and diagnostic tools.
- PoE support for simplified device connectivity and fiber uplinks for extended reach.
- Security features include device authentication, VLAN segmentation, and port security (Cisco) .

Other Industrial Options

- Modular switches with high-wattage PoE and advanced resiliency protocols.
- Full Gigabit Ethernet switches for secure connectivity in space-constrained machine integrations.
- Support for industrial AI and software-defined automation to prioritize time-sensitive data and optimize production (Cisco) .

Deployment Benefits

- Enhanced Productivity: Low-latency, high-bandwidth networks improve operational efficiency.
- Reduced Downtime: Rugged design and advanced monitoring minimize network failures.
- Future-Ready: Supports IT-driven frameworks in OT environments, enabling industrial AI and automation.
- Compliance: Meets rigorous industry standards for reliable field performance (Cisco) . Cisco industrial switches are suitable for organizations seeking secure, resilient, and AI-ready networking solutions in industrial environments, with options ranging from compact DIN-rail models to modular high-performance switches.

Article Content

Industrial Ethernet Switches

Built for secure industrial automation and a wide range of use cases, these modular switches with Power over Ethernet (PoE) options

Cisco Industrial Ethernet 1000 Series Switches

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

Cisco Catalyst IE3100 Rugged Series Industrial

The Cisco Catalyst IE3100 Rugged Series delivers mainstream adoption of Gigabit Ethernet connectivity in

Cisco Industrial Ethernet Switching

Book your one-on-one Meet the Engineer meeting. Attend any of the related sessions at the DevNet, Capture the Flag, and Walk-in

Cisco Catalyst IE3100 Rugged Series Industrial Ethernet Switches

Cisco Catalyst IE3100 Rugged Series Switches The Cisco Catalyst IE3100 Rugged Series delivers mainstream adoption of Gigabit

Cisco Industrial Ethernet Switches

Cisco Industrial Ethernet 4000 Series switches provide excellent high-bandwidth switching capacity, highly secure access, and

Cisco Industrial Ethernet 5000 Series Switches Data Sheet

The Cisco ® Industrial Ethernet (IE) 5000 Series Switches with four 10 Gigabit or four 1 Gigabit Ethernet uplinks and

Cisco Industrial Ethernet Switches Demos

Cisco experts demonstrate the capabilities of Cisco Industrial Ethernet switches and show how to build a high-performing operations

Cisco Industrial Ethernet Switches

Cisco Industrial Ethernet Switches Cisco Industrial Ethernet Switches are designed to withstand extreme conditions. Especially

Cisco Industrial Ethernet 4000 Series Switches Data Sheet

Developed specifically to withstand the harshest industrial environments, these switches offer the most flexible and

Industrial Ethernet Switches

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

Cisco Industrial Ethernet 1000 Series Switches Data Sheet

The Cisco® Industrial Ethernet (IE) 1000 Series Switches are compact rugged switches aimed to operational

Cisco Industrial Ethernet Switches

Cisco IE 2000 Series Switches: Compact fixed switching platform available in two form factors - DIN rail mounting or wall or pole

Cisco Industrial Ethernet Switches

Cisco Industrial Ethernet 3000 Series switches are Layer 2 and Layer 3 switches that offer robust security and superior ease of use.

Cisco Industrial Ethernet Switches

Cisco Industrial Ethernet Switches are designed to withstand extreme conditions. Especially useful for transportation, mining, and

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