

Industrial-grade Layer 3 network switches



AI Overview

Industrial-grade Layer 3 switches provide robust routing, high reliability, and security for harsh environments, supporting mission-critical industrial networks. Key Features

Routing and Layer 3 Capabilities: Industrial Layer 3 switches support advanced routing protocols such as OSPF, BGP, RIPv1/v2, VRRP, and static routing, enabling inter-VLAN communication and backbone network management for complex industrial networks (Kyland, Westermo, DYMEC) .

Redundancy and High Availability: Many industrial switches include HSR/PRP redundancy, RSTP, and hot-swappable modules to ensure continuous operation in critical applications like smart grids, transportation, and oil & gas networks (Kyland, Cisco) .

Security Features: Industrial switches implement security standards such as IEC 62443, ACLs, 802.1x, RADIUS, VPN support, and firewalls to protect sensitive industrial data and prevent unauthorized access (Moxa, DYMEC, Westermo) .

Environmental and Industrial Certifications: These switches are designed for extreme conditions, with wide operating temperature ranges, vibration resistance, and certifications including EN 50155 for rail, IEC 61850-3 for power automation, and NEMA TS2 for intelligent transportation systems (Moxa, DYMEC, Kyland) .

Performance and Connectivity: Industrial Layer 3 switches offer high-speed uplinks (10-GE or multigigabit), PoE/PoE+ options for powering devices, low-jitter performance for time-sensitive networking, and modular or compact form factors suitable for DIN-rail or rack mounting (Cisco, DYMEC) .

Management and Monitoring: These switches support centralized management platforms, device-to-cloud monitoring, and software-defined automation to optimize network performance, reduce downtime, and enable predictive maintenance (Cisco, Moxa) .

Use Cases

Transportation Systems: Rail signa...

Article Content

Cisco IE-4000-8GT4G-E Industrial Managed Gigabit Ethernet Switch

Rugged industrial Ethernet switch with 8 Gigabit RJ45 ports & 4 SFP uplinks. Supports Layer 2/3 features, -40°C to +75°C operation, and IEC 61850-3 compliance for harsh environments.

Layer 3 Managed Switches

Moxa's Layer 3 managed switches feature industrial-grade reliability, multicast availability, and security enhancements based on the IEC 62443 standard. We

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Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Small and Medium Enterprise Network Switches

Power your growing business with Cisco network switches built to evolve with your network, offering simplicity, security, and seamless scale for SMEs.

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

L2/L3 Managed Ethernet Switch

From Layer 2 and Layer 3 managed switches to 10G, PROFINET, and cybersecurity-focused models, our portfolio supports a wide variety of industrial networking requirements for factory automation,

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Managed Switches

With Layer 2 (data link layer) and Layer 3 (network layer) options or built-in SPE technology, you'll find just what you need in our Hirschmann and Lumberg

Networking Products and Solutions

Industrial networking Industrial-grade networking bridging IT and OT, built on the same platform as campus and branch, with ruggedized capabilities for factory,

Layer 3 Industrial Ethernet Switches | Industrial Grade

Explore industrial Layer 3 Ethernet switches designed for routing, VLAN control, and large-scale industrial networks. Rugged industrial grade L3 switches with fiber

Ethernet Switches

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

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O'Reilly & Associates, Inc. 103A Morris St. Sebastopol, CA United States

8-Port Managed Industrial Gigabit Ethernet Switch,

Managed 8-port Layer 2 PoE+ switch expands your Gigabit network in industrial environments, including security, utility and water/wastewater applications.

Industrial Ethernet Switches

Whether you need an unmanaged industrial Ethernet switch for a simple point-to-point connection, a managed switch for network redundancy, or a Layer 3

Industrial Ethernet Switches

Cisco Industrial Ethernet switches Secure connectivity, purpose-built for modern operations Elevate your industrial operations with an AI-ready, rugged network

Cisco Industrial Ethernet 3000 Layer 2/Layer 3 Series

This data sheet describes the benefits, specifications, and ordering information for the Cisco Industrial Ethernet 3000 Series Switches.

Buy Cisco Network Switches – PoE, Layer 3 & 10G

Shop Cisco network switches designed for secure and scalable business connectivity. Available in 24-port and 48-port models with advanced security and

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Industrial Ethernet Switches

Built for diverse industrial applications, these switches feature all-gigabit, high-density, all-copper or mixed copper and fiber ports, PoE options, and resiliency

Industrial Layer 3 Ethernet Switches | Westermo

Westermo industrial Layer 3 Ethernet switches provide secure and reliable routing for mission-critical networks. Designed for harsh industrial, rail and energy environments, they enable advanced

Layer 3 Network Switches | Grandstream Networks

The GWN7810 and GWN7820 Series of Layer 3 Network Switches offers 9 model options, including PoE and Non-PoE options with up to 48 ports, which are ideal

Layer 3 Switches | Industrial Ethernet Switches | EtherWAN

EtherWAN's Layer 3 switches can make routing decisions based on IP addresses, with support for both static routes and RIP v1/v2 protocols. Additionally, these Hardened / Industrial Ethernet switches

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Contact Us

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