Industrial-grade Layer 3 Switches



Overview

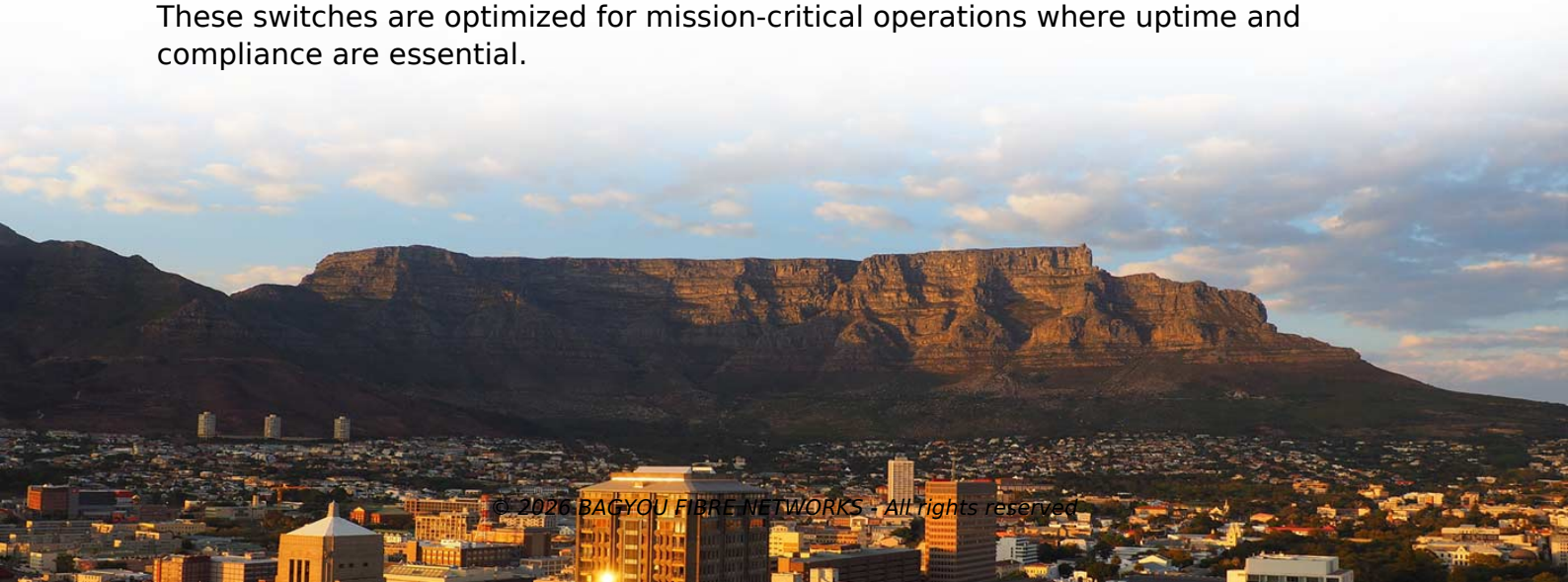
Moxa''s Layer 3 managed switches feature industrial-grade reliability, multicast availability, and security enhancements based on the IEC 62443 standard.

Key Takeaways

Top industrial-grade Layer 3 switches include Westermo, Moxa, Cisco Industrial Ethernet, and Come-Star models, offering advanced routing, rugged design, and compliance with industrial standards. Westermo Industrial Layer 3 SwitchesWestermo switches are designed for harsh industrial, rail, and energy environments, providing secure and reliable routing for mission-critical networks. They run on the WeOS operating system and are IEC 62443-ready, ensuring robust cybersecurity.

These switches support advanced network segmentation and long service life, making them ideal for applications requiring high reliability and secure managed networks. Moxa Layer 3 Managed SwitchesMoxa offers industrial-grade Layer 3 managed switches with multicast support, high reliability, and IEC 62443 security enhancements. They are certified for EN 50155 (rail), IEC 61850-3 (power automation), and NEMA TS2 (intelligent transportation systems), making them suitable for specialized industrial applications.

These switches are optimized for mission-critical operations where uptime and compliance are essential.



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Cisco Industrial Ethernet Switches

Cisco provides a wide range of industrial Layer 3 switches built for factories, transportation infrastructure, and grid substations. They feature high-speed 10-GE uplinks, PoE options, ultra-low jitter, and advanced security. Cisco switches support industrial AI, software-defined automation, and IT/OT integration, offering resiliency protocols, microsegmentation, and zero-trust remote access.

Models like the IE3500 Rugged Series and Catalyst IE9300 Rugged Series are modular, scalable, and suitable for high-performance industrial networks.

Come-

Star Industrial Layer 3 SwitchesCome-Star switches combine advanced routing with rugged design, supporting static routing, OSPF, VLANs, and QoS prioritization. They operate reliably in extreme temperatures (-40°C to +75°C) and high-vibration environments. Management options include CLI, web interface, and SNMP, making them versatile for factory floors, transportation networks, and utility systems.

These switches are ideal for large-scale, segmented industrial networks requiring high-speed communication and redundancy.

Key Considerations

When selecting an industrial Layer 3 switch, consider: Environmental tolerance: temperature, vibration, and humidity ratingsNetwork protocols: OSPF, VLAN, QoS, multicast supportSecurity compliance: IEC 62443 or other relevant standardsRedundancy and uptime: dual power supplies, failover capabilitiesConnectivity: fiber and Gigabit options, PoE support for devices These switches are suitable for mission-critical industrial networks where reliability, security, and advanced routing are essential.

Article Content

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.

Layer 3 Industrial Ethernet Switches | Industrial Grade L3 Switch ...

Explore industrial Layer 3 Ethernet switches designed for routing, VLAN control, and large-scale industrial networks.

Rugged Industrial Layer 3 Switch Series – Altai Technologies

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The IES3100 Series is a high performance industrial Layer 3 managed switch family engineered for mission critical applications in harsh outdoor and industrial environments.

Ethernet Switches

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

Cisco Industrial Ethernet 3000 Layer 2/Layer 3 Series Switches Data ...

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

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 protocols.

Layer 3 Switches | Industrial Ethernet Switches | EtherWAN

All lite Layer 3 switches support SNMP, port mirroring, QoS, flow control, VLANs, Link Aggregation, IGMP snooping, DHCP, and DDM. EtherWAN''s Layer 3 switches can make routing decisions based

Industrial Switches

Future-proof industrial switches are designed to meet the stringent requirements of reliable high-performance in harsh environments.

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 switch for advanced

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

Industrial Ethernet Switches

Modernize your operations with Cisco Industrial Ethernet switches: Increase productivity, boost security, and empower industrial AI.

Types of Industrial Grade Network Switches

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Modern industrial grade network switches ensure seamless connectivity and power in factory automation environments. When selecting an industrial switch, network

DIN Rail & Rack Layer 3 Managed Industrial Ethernet Switches ...

Why Choose Layer 3 Managed Ethernet Switches from DYMEC? DYMEC''s Layer 3 Managed switches feature industrial-grade reliability, and multicast availability. DYMEC Security Enhancements are

Industrial Layer 3 Managed Ethernet Switches | Dynalog India

We at Dynalog india have range of Industrial grade layer 3 managed ethernet switches that are designed for industrial applications. Buy now!

IEC61850-3 Layer 3 10G Ethernet Switch | Industrial & Telecom

The industrial Layer 3 IEC61850-3 Ethernet switch adopts an enhanced design to meet the substation IEC61850-3 and IEEE 1613 certification requirements. It provides up to 24 Gigabit Ethernet ports,

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,

Layer 3 Network Switches

Actelis'' Layer 3 network switches are managed, hardened, and feature Gigabit switching capacity, static routing, RIP v1/v2, OSPF v2, and VRRP v2.

Layer 2 Managed Switches

Layer 2 Managed Switches Moxa''s Layer 2 managed switches feature industrial-grade reliability, network redundancy, and security features based on the IEC 62443 standard. We offer toughened,

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