

3C Certified Industrial Ethernet Switches



AI Overview

3C Certification (China Compulsory Certification) ensures that industrial Ethernet switches meet mandatory safety and quality standards for use in China. Overview of 3C Certification 3C Certification, also known as China Compulsory Certification, is a mandatory safety and quality certification required for many electrical and electronic products sold in China. For industrial Ethernet switches, 3C certification ensures that the devices comply with Chinese safety regulations, electromagnetic compatibility (EMC), and environmental standards. This certification is similar in purpose to CE marking in Europe or UL certification in the United States, but it is legally required for products entering the Chinese market.

Importance for Industrial Ethernet Switches Industrial Ethernet switches are often deployed in harsh environments, such as transportation systems, smart buildings, and industrial automation, where reliability and safety are critical. 3C certification confirms that the switch has been tested for:

- Electrical safety under high voltage and current conditions
- Fire and thermal resistance
- EMC compliance to prevent interference with other devices
- Durability under industrial operating conditions, including wide temperature ranges and vibration

Switches like the H3C IE4300 series and Cisco Catalyst IE3400 Heavy Duty Series are designed for industrial-grade reliability, often featuring IP-rated enclosures, fanless cooling, and wide operating temperature ranges. While these products may carry multiple international certifications (IEC, EN, ISO), 3C certification is specifically required for legal sale and deployment in China.

Certification Process The 3C certification process typically involves:

- Application Submission:** Manufacturer submits product details and technical documentation to a certified testing laboratory in China.
- Product Testing:** The switch undergoes safety, EMC, and environmental testing according to Chinese standards.
- Factory Inspection:** The manufacturing facility is inspected to ensure consistent production quality.
- Certification Issuance:** Upon passing all tests, the manufacturer receives a 3C certification mark.

Article Content

Industrial Ethernet Switches | Phoenix Contact

Our Industrial Ethernet Switch portfolio comprises Managed and Unmanaged Switches with Gigabit, PoE, IEC 61850 certification, and for DIN rail mounting.

Industrial Ethernet Switches | WAGO

Industrial Switches WAGO's switch portfolio provides scalable Ethernet network infrastructure with excellent electrical and mechanical performance. These

Cisco Industrial Threat Defense

OT security included with select Industrial Ethernet switches Get Cisco Cyber Vision free of charge when you buy a Cisco IE3500 Rugged Series, Cisco IE3500

Cisco Catalyst IE3400 Heavy Duty Series Data Sheet

The Cisco Catalyst IE3400 Heavy Duty Series is an industrial ethernet switching platform for extending IoT connectivity to harsh environments,

End-of-Sale and End-of-Life Announcement for the Cisco Industrial ...

Customers may be able to continue to purchase the Cisco Industrial Ethernet 4010 Series through the Cisco Refresh (certified remanufactured) program. Remanufactured units may be

Westermo | Industrial Networking & Connectivity

Westermo provides cybersecure industrial networks, hardware, software, and expertise for mission-critical systems. Explore our connectivity solutions.

Layer3 M12 8 Ports 10/100/1000M Industrial Ethernet

This device has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It is designed for

Industrial Ethernet Switches - Simple and effective

Our Ethernet switches are designed for use in industrial environments. They are robust, impact-resistant and temperature-resistant. All products fulfil the highest

Power Over Ethernet: What Is "PoE"? — Everything

Power Over Ethernet (or "PoE") is a technology that delivers power and data over a single Ethernet cable to power devices like IP cameras and VOIP phones.

SCALANCE XC206-2SFP G

06/2026, Compact Operating Instructions, C79000-G8999-C757-02 Summary: This document forms the original instructions for the SCALANCE XC-100/SCALANCE

Unmanaged Industrial Ethernet Switches

The optimized connectivity of the SWU industrial Ethernet switches brings immediate benefits for your devices and manufacturing plant, such as reduced costs and monitoring installation, ideal for the

H3C IE4320-EI Series Din-rail Industrial Ethernet Switches

H3C IE4320-EI series industrial switches adhere to industrial grade hardware design and adopts highly reliable industrial grade components, while using the highly developed and tested Comware platform

Industrial Layer 3 Ethernet Switches | Westermo

Learn the recipe for designing, implementing and maintaining a truly robust and resilient industrial network with this white paper. Explore Westermo Layer 3

Industrial Ethernet Switches

Our switches are built for high network flexibility, cyber security and durability and are suitable for use in mission-critical environments.

SCALANCE

SCALANCE network components form the basis of communication networks in manufacturing and process automation. Specially designed for use in industrial

Industrial Ethernet Switch USB RS232 RS485 RS422

Industrial Ethernet Switches, Industrial USB RS232 RS485 RS422 TTL Serial Fast and Gigabit Ethernet Fiber Optic Converters / Isolators / Extenders / Hubs,

Certifications

Cisco certifications are for all levels and technologies. Whether your dream role is in enterprise, security, automation, or the cloud, let Cisco pave the way.

SCALANCE XC208

06/2026, Compact Operating Instructions, C79000-G8999-C757-02 Summary: This document forms the original instructions for the SCALANCE XC-100/SCALANCE

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Cisco Industrial Ethernet Switches Cisco's Industrial Ethernet portfolio delivers ruggedized networking for outdoor surveillance with IE-series switches certified to IEC 61850-3 and

Layer 3 Managed Switches

We offer toughened industry-specific products with multiple industry certifications, such as parts of the EN 50155 standard for rail applications, IEC 61850-3 for

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://sphplantsales.co.za>

Email: info@sphplantsales.co.za

Phone: +27 64 827 3915

Address: Unit 9, Highveld Technopark, 43 Atlas Road, Johannesburg, 2196,
South Africa

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