



SIEMENS

Ingenuity for life



Four for the field

SCALANCE X-200
Managed Industrial Ethernet Switches

[siemens.com/x-200](https://www.siemens.com/x-200)

The right switch for every application

SCALANCE X-200 for machine-level applications and networked systems

Industrial communication is essential for every functioning automation system. It provides the infrastructure and the necessary network mechanisms for company-wide data communication along the entire value chain. Future-proof industrial networks, however, demand components that exhibit a high degree of openness and flexibility. With our upgraded range of SCALANCE X-200 Industrial Ethernet switches, we offer the right, innovative solution on the basis of proven standards.



A new variety of robust communication options

You can solve numerous industrial applications easily and reliably with the Layer 2 switches of the SCALANCE X-200 series, enabling you to benefit from maximum operating flexibility. Thanks to their robust and compact design with a variety of port versions, the switches are suitable for a wide range of requirements. The possible applications range from machine-level applications without cabinets to plant networks. It is possible to switch flexibly between the Industrial Ethernet protocols PROFINET and EtherNet/IP. Consistent configuration in the TIA Portal simplifies the configuration and diagnostics for PROFINET.

Customized answers for many industries

Depending on the industry, many different demands on the industrial network components have to be met: from reliable communication under very harsh conditions to the efficient networking of widely distributed systems. As a partner to industry, Siemens has comprehensive knowledge of diverse sectors and applications, as well as extensive experience in the planning, implementation and servicing of all industrial communication networks. See for yourself the versatility of the innovated series of SCALANCE X-200 products and find the right switch to suit your requirements.

> Find out more at: [siemens.com/x-200](https://www.siemens.com/x-200)

Performance down to the last detail

Highlights of the SCALANCE X-200 product series

Choose from among four innovative SCALANCE X-200 product lines with individual features and possible applications:

SCALANCE XC-200



Opt for SCALANCE XC-200 and benefit from ...

- high network availability up to 1000 Mbit/s
- numerous possible applications thanks to a variety of functionalities (VLAN, HRP stand-by, MRP, SNMP, RSTP)
- flexible, reliable use, even in harsh environments
- its use in both PROFINET and EtherNet/IP applications
- many mounting options for fast and secure attachment
- simple device replacement thanks to C-PLUG

Covering all the bases: SCALANCE XC-200

With SCALANCE XC-200 you are opting for the universal solution for demanding applications in harsh environments. Designed for temperatures between -40°C and $+70^{\circ}\text{C}$ and bearing extensive certifications, the switches can be used in a wide range of industrial applications, including gigabit networks. They offer an impressive range of functions and a high degree of flexibility. Thanks to a free choice of SFP plug-in transceivers with data rates of up to 1 Gbps, they

are also suitable for networking large plants. The SCALANCE XC-200 switches can be installed quickly and easily in control cabinets or boxes – regardless of whether their application requires wall mounting or installation on a standard DIN rail or SIMATIC mounting rail. Choose maximum flexibility and high performance: with SCALANCE XC-200.

> Find out more at: [siemens.com/xc-200](https://www.siemens.com/xc-200)

SCALANCE XP-200



Opt for SCALANCE XP-200 and you will benefit from ...

- high network availability outside the cabinet
- numerous possible applications thanks to a variety of functionalities (VLAN, HRP stand-by, MRP, SNMP)
- flexible use in potentially hazardous environments
- its use in both PROFINET and EtherNet/IP applications
- potential use in railway applications
- simple device replacement thanks to C-PLUG

Stays cool when the going gets tough: SCALANCE XP-200

Benefit from maximum flexibility and versatility outside the control cabinet – with the robust SCALANCE XP-200 managed switches. No matter whether they are located in extremely cold or hot situations (-40°C and $+70^{\circ}\text{C}$), in potentially hazardous Zone 2 areas, or along transport routes such as roads or railways: SCALANCE XP-200 managed switches are the right choice when it comes to reliable

communication in harsh environments. With their slim-line IP65/67 metal enclosure featuring M12 connections and up to four gigabit ports, the switches ensure reliable transfer of large volumes of data in numerous industries and applications. Thanks to Power-over-Ethernet (PoE) in accordance with IEEE 802.3at Type 2 (max. 120 W), transmission of energy and data over a single cable is made possible.

> Find out more at: [siemens.com/xp-200](https://www.siemens.com/xp-200)

SCALANCE XF-200BA



Opt for SCALANCE XF-200BA and benefit from ...

- great flexibility thanks to the use of various bus adapters
- tremendous space savings thanks to an extremely flat design
- use of existing plastic optic fiber (POF) cable via bus adapter
- use of existing PROFIBUS cable infrastructures thanks to the BA 2xRJ45VD HA bus adapter
- simple device replacement thanks to C-PLUG

It's your choice: SCALANCE XF-200BA

By ensuring great flexibility for you, the innovative SCALANCE XF-200BA switches offer tremendous freedom. This is mainly because the data lines are connected via bus adapters. In the case of replacement, you can easily change the transmission medium, for example from copper to plastic fiber optic cable. Thanks to the flat construction in the SIMATIC ET 200SP design, the switches fit perfectly into any control cabinet for space-saving installation. The BA 2xRJ45VD HA bus adapter is

capable of both standard Ethernet communication via 4-wire cables (twisted pair) and data transfer via 2-wire cables (single twisted pair). This means that existing PROFIBUS infrastructures can continue to be used, thus avoiding costly retrofitting at the field level in particular. The managed switches are ideal for use in manufacturing and process automation, for example in automobile manufacturing or in the oil and gas industry.

> Find out more at: [siemens.com/xf-200](https://www.siemens.com/xf-200)

SCALANCE XB-200



Opt for SCALANCE XB-200 and you will benefit from ...

- numerous possible applications, thanks to a variety of functionalities (VLAN, MRP, SNMP)
- considerable space savings in the control cabinet/control box
- its use in both PROFINET and EtherNet/IP applications
- an attractive price-performance ratio

Performance at an attractive price: SCALANCE XB-200

With the SCALANCE XB-200 switches, you are opting for a great scope of functions in a compact space. The robust, lightweight switches in the compact and narrow plastic enclosure are ideally suited for use in the control cabinet and are designed for real-time communication via PROFINET as well as EtherNet/IP.

> Find out more at: [siemens.com/xb-200](https://www.siemens.com/xb-200)



SCALANCE X-200: Your advantages at a glance

- Customized design of small and large industrial networks
- Easily expandable electrical or optical networks
- Consistent, reliable and powerful data networks on the basis of proven standards and redundancy procedures
- Continuous network monitoring, diagnostics and reporting for maximum transparency in industrial networks
- Use of PROFINET networks in process automation
- Easy assembly on site without errors – using the FastConnect installation system

SCALANCE	XC-200	XP-200	XF-200	XB-200
Automotive / mechanical engineering	✓	✓	✓	✓
Rail	✓	✓		
Tunnel	✓		✓	✓
Oil & Gas	✓	✓	✓	✓
Marine	✓	✓	✓	
Food & Beverage	✓	✓	✓	
Outside the control cabinet		✓		
Building automation	✓		✓	✓
Process automation	✓	✓	✓	

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Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial security measures that may be implemented, please visit

[siemens.com/industrialsecurity](https://www.siemens.com/industrialsecurity)

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

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