

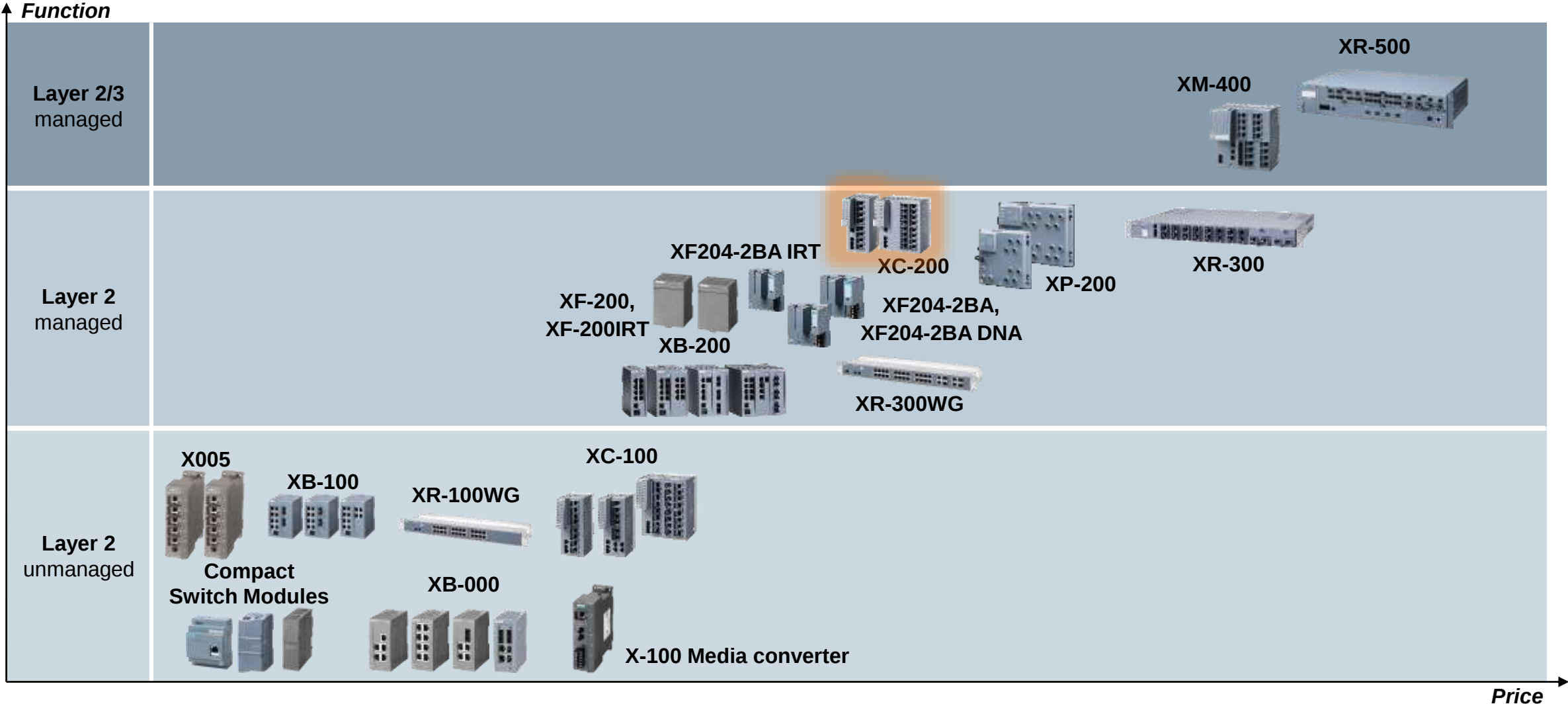


SCALANCE XC-200

The universal managed switches

SCALANCE XC-200

Positioning in the SCALANCE X-Portfolio



SCALANCE XC-200

Comparison previous (X-200/X-300) and current portfolio (1/2)

Current portfolio	XC206-2 (ST/BFOC/SC)				XC206-2SFP						XC206-2SFP G / XC216-4C G																																																													
	XC-200																																																																							
	890 € 				690 €¹⁾ 						890€¹⁾ / 1790€¹⁾ 																																																													
Previous portfolio	X-200 / (X-300 ²⁾)																																																																							
																																																																								
	865 €				990 €				710 €				1600 €				865 €				990 €				1960 €				710 €				1320 €				2250 €				2340 €				3020 €				2170 €				2640 €				4330 €				6020 €				2090 €				1880 €			
	X204-2				X204-2FM				X206-1				X304-2FE				X204-2				X204-2FM				X204-2LD				X206-1				X206-1LD				X306-1LDFE				X307-3				X307-3LD				X308-2				X308-2LD				X308-2LH				X308-2LH+				X308-2M				X310			

SCALANCE XC-200

Comparison previous (X-200/X-300) and current portfolio (2/2)



Current portfolio	XC208	XC208 G		XC216	XC216-4C		XC224	XC224-4C G	
	XC-200								
	590 €	1090 €		1090 €	1350 € ¹⁾		1590 €	2390 € ¹⁾	
									
Previous portfolio	X-200 / (X-300 ²⁾)								
									
	670 €	2090 €		1330 €	1600 €		2020 €	2530 €	
	X208	X308-2M		X310	X212-2		X224	X320-1FE	
			X216		X212-2LD		X320-3LD FE		

¹⁾ Without integrated, optical transceiver

²⁾ X-300 contains C-PLUG in delivery contents, XC-200 not

SCALANCE XC-200 - Positioning within the compact managed Layer 2 Switches

Switch	Graphic	Areas of application	List prices
XB-200		- For setting up line, star and ring structures - For PROFINET and EtherNet/IP applications - Compact and small dimensions	490 € ... 1450 €
XC-200		- Extended temperature range from -40 °C to +70 °C, conformal coating¹⁾ - Gigabit-capable, can be equipped with SFPs, PROFINET and EtherNet/IP - Certifications for trackside railway applications, marine applications, NAMUR NE 21-compliant¹⁾ - Additional FW functionalities: Fiber monitoring, VLANs, HRP standby, S2-system redundancy, CiR/H-CiR, H-Sync	590 € ... 1590 €
XP-200		- High protection class (IP65) for use outside of the control cabinet with up to 1 Gbit/s - Extended temperature range from -40 °C to +70 °C, conformal coating¹⁾, Power-over-Ethernet (PoE) - PROFINET, EtherNet/IP VLANs, HRP standby, S2-system redundancy, CiR/H-CiR, H-Sync - Certifications for railway, motor vehicles, marine applications, NAMUR NE 21-compliant¹⁾	850 € ... 1950 €
XF-200, XF204-2BA		- Flat design with cable outlet on the bottom, flexible bus Adapter concept for XF204-2BA - For a high degree of network availability and high functional demands - SCALANCE XF204-2BA: -40 °C to +70 °C, conformal coating, NAMUR NE 21-compliant, VLANs, HRP standby, S2-system redundancy, CiR/H-CiR, H-Sync	435 € ... 845 €
X-200IRT, XF204-2BA IRT		- For PROFINET applications with IRT requirements - For high-performance motion control applications - For high-precision applications (isochronous mode) and seamless switching in case of redundancy - Flexible bus Adapter concept for XF204-2BA IRT	850 € ... 1230 €
X-200RNA		- For shock-free networks with PRP/HSR - Up to 4x RJ45 ports / 2x FO - Combo ports and extended temperature range from -40 °C to +70 °C (for EEC versions)	665 € ... 865 €
XF204-2BA DNA		- Implementation of Y functionality: for connecting S2 devices to high available R1 systems - Flexible bus adapter concept - Extended temperature range: -40 °C to +70 °C, conformal coating, NAMUR NE 21 conform - FW functionalities: S2-system redundancy, CiR/H-CiR, H-Sync	750 € ²⁾

¹⁾ EEC variants

²⁾ Without bus Adapter

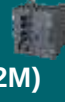
SCALANCE XC-200 - Positioning within the compact managed Layer 2 Switches

Switch	Graphic	Areas of application	List prices
XC-200		- Extended temperature range from -40 °C to +70 °C, conformal coating¹⁾ - Gigabit-capable, can be equipped with SFP, PROFINET and EtherNet/IP - Certifications for trackside railway applications, marine applications, NAMUR NE 21-compliant¹⁾ - FW-functionalities: Fiber monitoring, VLANs, HRP standby, S2-system redundancy, CiR/H-CiR, H-Sync	590 € ... 2390 €
RUGGEDCOM i800		- For reliable operation in harsh environments - Optionally with conformal coating for extreme conditions - For high climatic requirements (-40 °C to +85 °C)	445 € ... 1214 €
RUGGEDCOM RSG900C		- Certifications for electrical power (IEC 61850) - Support of IEEE 1588v2 (ordinary clock / transparent clock) - Gigabit-capable, can be equipped with SFP - Optionally with conformal coating for extreme conditions - For high climatic requirements (-40 °C to +85 °C)	1350 € ... 2075 €

SCALANCE XC-200

Comparison of functions

The most important features

	X-200 (e.g. X212-2) 	XB-200 (e.g. XB213-3) 	XF204-2BA 	XC-200 (e.g. XC206-2SFP) 	X-300 (e.g. X308-2M) 	RUGGEDCOM RSG9xxC (e.g. RSG910C) 	RUGGEDCOM I802 
Hardware							
Electric/optical port design	12x RJ45 / 2x FO	13x RJ45 / 3x FO	4x copper / FO	6x RJ45/2x FO	4x RJ45 / 2x MM	6x RJ45 / 4x FO	6x RJ45 / 2x FO
FO version	ST/BFOC	SC or ST/BFOC	SC RJ / LC ¹⁾	SC, ST/BFOC or SFP(LC)	SC, ST/BFOC or SFP(LC)	SFP(LC)	LC
Temperature range	-40 °C to +60 °C	0 °C to +60 °C	-40 °C to +70 °C	-40 °C to +70 °C	-40 °C to +70 °C	-40 °C to +85 °C	-40 °C to +85 °C
Housing	Metal / Plastic	Plastic	Plastic	Metal / Plastic	Metal / Plastic	Metal	Metal
Protection class	IP30	IP20	IP20	IP20	IP30	IP40	IP40
Mounting	DIN rail, S7-300, S7-1500 mounting rail, wall	DIN rail, S7-1500 mounting rail	DIN rail	DIN rail, S7-300, S7-1500 mounting rail, wall	DIN rail, S7-300, S7-1500 mounting rail, wall	DIN rail, wall	DIN rail
Transmission rate	10/100 Mbit/s	10/100 Mbit/s	10/100 Mbit/s	10/100/1000 Mbit/s	10/100 Mbit/s	10/100/1000 Mbit/s	10/100/1000 Mbit/s
Dimensions WxHxD [mm] Weight [g]	120x 125x 124 1200	120x 117x 109 500	100x 117x 74 250	60x 147x 125 520	120x 125x 124 1400	91x 177x 173 2400	51x 114x 89 800
Power-over-Ethernet (PoE)	No	No	No	No	max. 4 (total 30 W)	Only in the RS900GP	No
RSTP / VLAN / IEEE 802.1X	No	Yes	Yes	Yes	Yes	Yes	Yes
PROFINET / EtherNet/IP	Yes / No	Yes / Yes	Yes / Yes	Yes / Yes	Yes / No	No / No	No / No
ATEX / IECEx / marine	Yes / Yes / Yes	Yes / Yes / No	Yes / Yes / Yes	Yes / Yes / Yes	Yes / Yes / Yes	Planned / Planned / No	Yes / No / No
Railway approval 50121-4	No	No	No	Yes	No	Planned	No

¹⁾Bus Adapter with LC connection currently not released

SCALANCE XC-200

Comparison of functions – PA - relevant features

The most important features

XC-200



XC-200EEC



XP-200



XF204-2BA



XF204-2BA IRT



Certificates

ATEX / IECEx / marine	Yes / Yes / Yes	Yes / Yes / Yes	Yes / Yes / Yes	Yes / Yes / Yes	Yes / Yes / Yes
Railway approval 50121-4	Yes	Yes	No	No	No
PROFINET Class CC-B	Yes	Yes	Yes	Yes	Yes
PROFINET Class CC-C	No	No	Yes	No	Yes

Features required in process industry

Temperature range	-40 °C to +70 °C	-40 °C to +70 °C	-40 °C to +70 °C	-40 °C to +70 °C	-40 °C to +70 °C
NAMUR NE 21-compliant	No	Yes	Yes ¹⁾	Yes	No
Conformal coating (G3)	No	Yes	Yes ¹⁾	Yes	No
Mounting altitude up to 4000 m	No	Yes	Yes ¹⁾	Yes	No
SIMATIC PCS 7 release	Yes	Yes	Yes	Yes	Yes
2-, 4-, and 8-wire Ethernet communication	No	No	No	Yes ²⁾	No
S2-system redundancy	Yes	Yes	Yes	Yes	No
CiR/H-CiR, H-Sync	Yes	Yes	Yes	Yes	No

¹⁾ EEC variants

²⁾ Without bus Adapter

Managed Layer 2 Industrial Ethernet Switches

Positioning of XB-200, XF204-2BA, XC-200(EEC), XP-200



		 SCALANCE XB-200	 SCALANCE XF204-2BA	 SCALANCE XC-200EEC	 SCALANCE XC-200	 SCALANCE XP-200
	Pharma/Chemistry					
	Automotive/mechanical engineering					
	Railway					
	Tunnel					
	Oil&Gas					
	Marine					
	Food&Beverage					
	Cement					
	Control cabinet free					
	Building Automation					

SCALANCE XC-200

Added value compared to SCALANCE XB-200



	SCALANCE XB-200  	SCALANCE XC-200  
Hardware		
C-PLUG slot	No	Yes
Temperature range	0 °C to +60 °C	-40 °C to +70 °C
Housing	Plastic	Front: Plastic, Rear part: Metal
Mounting	DIN rail, mounting adapter	DIN rail, SIMATIC S7-1500, S7-300 mounting rails, wall mounting
Securing collar	No	Yes
Signaling contact	No	Yes
Max. number of ports	16	24
Optical version	ST/BFOC, SC	ST/BFOC, SC, SFP (LC)
Gigabit	No	Yes (SFP Ports of XC206-2SFP, XC208G)
EEC versions for process automation	No	Yes
Software		
Fiber monitoring/MSTP/Link aggregation/ NAT/ Private VLAN/ Port mirroring Multi Ports/GMRP	No	Yes
Approvals		
Marine	No	Yes ¹⁾
Trackside railway approvals (EN 50121-4)	No	Yes

SCALANCE XC-200

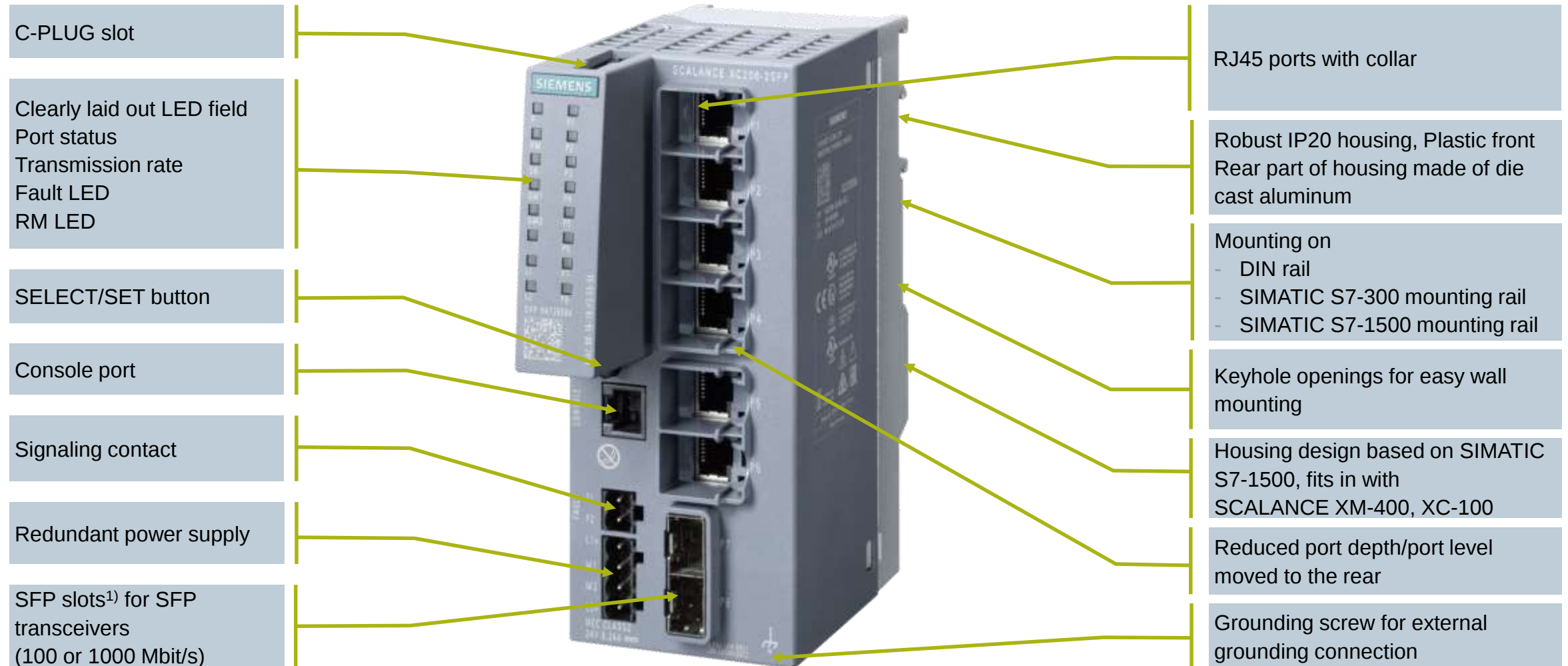
Added value compared to SCALANCE X-200 and X-300

	XC-200 	X-200 	X-300 	Customer benefit
Virtual Local Area Network (VLAN)	x		x	Structuring of layer 2 networks
IGMP snooping and query/per VLAN	x/x		x/-	Control of multicast traffic, especially for EtherNet/IP
HRP standby Master/Slave	x		x	Coupling of redundant ring networks
Link aggregation	x		x	Bundling of several ports to increase the overall data throughput
Fiber monitoring on all versions with fiber-optic ports	x	only X204-2FM	only X308-2M with MM FM ¹⁾	Monitoring of the fiber-optic connections for contamination and age-related wear
IEEE 802.1X (e.g. RADIUS)	x		x	Main point of this standard is the use of an authentication servicer
Rapid / Multiple Spanning Tree	x		x	Worldwide standard for redundant network configurations
Configuration in TIA Portal as in Web Based Management (WBM)	x			Uniform representation of the configuration settings in SCALANCE WBM and TIA Portal
"Port depth"	90 mm (XC208)	124 mm (X208)	124 mm (X308-2M)	Space-saving installation in the control cabinet in spite of cable outlet considerations
Diagnostics island	x			Quick status detection and diagnostics due to well laid out diagnostic LEDs
Network Address Translation (NAT)	x		x	Series machines with an identical address space simple to configure
Private VLAN (PVLAN)	x			Further separation of Layer 2-Broadcastdomains of a VLAN
Link Check	x		x	Monitoring of optical connections in a ring
DHCP server	x			As DHCP-Client it allows the assignment of IP-addresses of devices
Console port	x			Diagnostic access to the CLI of the device without allocating an IP-address
QinQ Tagging (Provider Bridge)	x			Unaltered forwarding of VLAN-priority frames over a VLAN-capable network
Support of S2-Device, CiR/H-CiR	x			Redundant integration in SIMATIC PCS 7
RSTP+ (from FW 4.1) 	x			Redundant integration of MRP rings in a RSTP network
Firmware on PLUG (from FW 4.1) 	x			Fast and simple replacement of SCALANCE devices and CPs without configuration of the replacement part

¹⁾ SCALANCE X308-2M, X308-2M PoE, X308-2M TS with media module MM991-2FM

SCALANCE XC-200

Setup using the SCALANCE XC206-2SFP as an example



¹⁾ XC206-2SFP G, XC206-2SFP G EEC and devices with combo ports: Only Gigabit SFPs can be plugged in

SCALANCE XC-200

Device data, versions with optical ports

	XC206-2 (ST/BFOC) 	XC206-2 (SC) 	XC206-2SFP XC206-2SFP EEC 	XC206-2SFP G EEC XC206-2SFP G XC206-2SFP G (EIP Def.) 
Optical port type, port speed	2x ST/BFOC 100 Mbit/s	2x SC 100 Mbit/s	2x SFP 100 or 1000 Mbit/s	2x SFP 1000 Mbit/s
Electrical ports and port speed	6x RJ45 10/100 Mbit/s			6x RJ45 10/100/1000 Mbit/s
Housing width	60 mm			
Housing height, depth	147 mm, 125 mm			
Signaling contact	1x 2-pole push-in connector			
Power supply	DC 24 V			
Console port	1x RJ11			
Housing material	Plastic front, rear part of housing made of die cast aluminum			
C-PLUG slot	Yes			
Weight	540 g	540 g	520 g	
Temperature range	-40 °C to +70 °C			
Protection class	IP20			
Trackside railway approval EN 50121-4	Yes			

SCALANCE XC-200

Device data, versions with electrical ports

	XC208G, XC208G EEC, XC208G (EIP Def.) 	XC208 XC208EEC 	XC216 XC216EEC 	XC224 
Port speed	10/100/1000 Mbit/s	10/100 Mbit/s		
Port design	8x RJ45		16x RJ45	24x RJ45
Housing width	60 mm		120 mm	120 mm
Height, depth	147 mm, 125 mm			
Signaling contact	1x 2-pole push-in connector			
Power supply	DC 24 V			
Console port	1x RJ11			
Housing material	Plastic front, rear part of housing made of die cast aluminum			
C-PLUG slot	Yes			
Weight	520 g		800 g	880 g
Temperature range	-40 °C to +70 °C			
Protection class	IP20			
Trackside railway approval EN 50121-4	Yes			

SCALANCE XC-200

Device data, versions with electrical ports

	XC216-4C 	XC216-4C G XC216-4C G (E/IP Def.) XC216-4C G EEC 	XC224-4C G XC224-4C G (E/IP Def.) XC224-4C G EEC 
Port speed	10/100/1000 Mbit/s (RJ45) and 1000 Mbit/s (SFP)		
Port design	12x RJ45 10/100 Mbit/s + 4 x 1000 Mbit/s combo ports ¹⁾	12x RJ45 10/100/1000 + 4 x 1000 Mbit/s ¹⁾ combo ports ¹⁾	12x RJ45 10/100/1000 Mbit/s + 4 x 1000 Mbit/s ¹⁾ combo ports ¹⁾
Housing width	140 mm		140 mm
Height, depth	150 mm, 125 mm		
Signaling contact	1x 2-pol. push-in connector		
Power supply	DC 24 V		
Console port	1x RJ11		
Housing material	Plastic front, rear part of housing made of aluminum pressure casting		
C-PLUG slot	C-PLUG		
Weight	1200 g	1200 g	1300 g
Temperature range	-40 °C bis +70 °C		
Protection class	IP20		
Trackside railway approval EN 50121-4	Yes		

¹⁾ Either RJ45 (10/100/1000 Mbit/s) or SFP (1000 Mbit/s) suitable

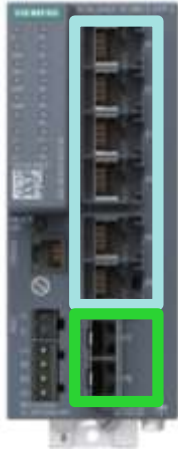
SCALANCE XC-200

Gigabit in full width

SIEMENS
Ingenuity for life



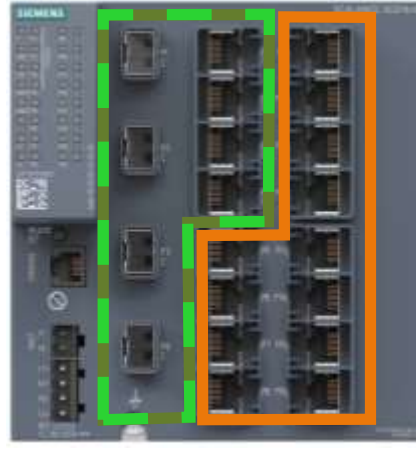
XC206-2SFP
6x RJ45 FE
2x SFP FE/G



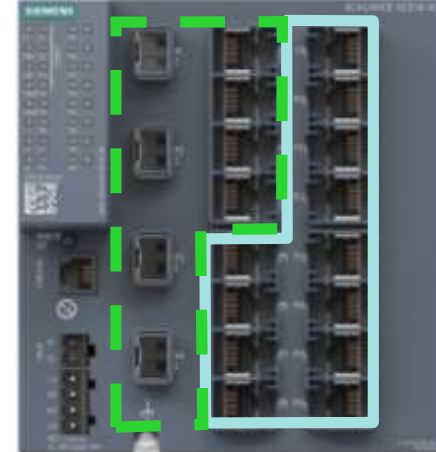
XC206-2SFP G
6x RJ45 G
2x SFP G



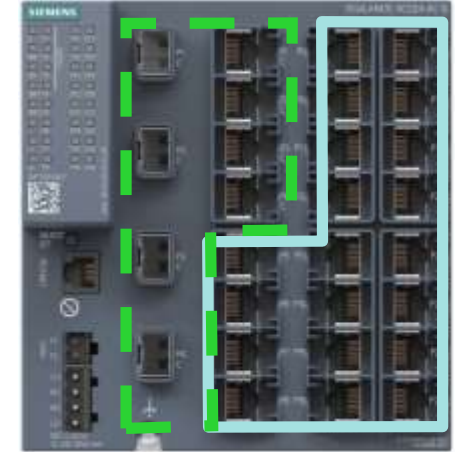
XC208G
8x RJ45 G



XC216-4C
12x RJ45 FE
4 x RJ45/SFP G combo ports



XC216-4C G
12x RJ45 G
4x RJ45/SFP G combo ports



XC224-4C G
20x RJ45 G
4 x RJ45/SFP G combo ports

- 10/100 Mbit/s port electrical (RJ45)
- 100 or 1000 Mbit/s port optical (SFP)
- 10/100/1000 Mbit/s port electrical (RJ45)
- 1000 Mbit/s port optical (SFP)
- - Combo port: Either 10/100/1000 Mbit/s port electrical (RJ45) or 1000 Mbit/s port optical (SFP)

SCALANCE XC-200

Order data



	Product name	Order number	Start of delivery	List price	Description
	SCALANCE XC206-2 (ST/BFOC)	6GK5206-2BB00-2AC2	Available	€ 890	Managed switch with 8 ports, of which - 6x RJ45 ports 10/100 Mbit/s - 2x ST/BFOC ports (multimode) 100 Mbit/s
	SCALANCE XC206-2 (SC)	6GK5206-2BD00-2AC2	Available	€ 890	Managed switch with 8 ports 100 Mbit/s, of which - 6x RJ45 ports 10/100 Mbit/s - 2x SC ports (multimode) 100 Mbit/s
	SCALANCE XC206-2SFP	6GK5206-2BS00-2AC2	Available	€ 690	Managed switch with 8 ports - 6x RJ45 ports 10/100 Mbit/s, - 2x SFP ports 100/1000 Mbit/s
	SCALANCE XC208	6GK5208-0BA00-2AC2	Available	€ 590	Managed switch with 8x RJ45 ports 10/100 Mbit/s
	SCALANCE XC216	6GK5216-0BA00-2AC2	Available	€ 1090	Managed switch with 16x RJ45 ports 10/100 Mbit/s
	SCALANCE XC224	6GK5224-0BA00-2AC2	Available	€ 1590	Managed switch with 24x RJ45 ports 10/100 Mbit/s

SCALANCE XC-200

Order data – Gigabit versions

	Product name	Order number	Start of delivery	List price	Description
	SCALANCE XC206-2SFP G	6GK5206-2GS00-2AC2	Available	€ 890	Managed switch – full Gigabit, default setting PROFINET 8 ports, of which - 6x RJ45 ports 10/100/1000 Mbit/s - 2x SFP ports 1000 Mbit/s
	SCALANCE XC206-2SFP G (E/IP Def.)	6GK5206-2GS00-2TC2	Available	€ 890	Managed switch – full Gigabit, default setting EtherNet/IP 8 ports, of which - 6x RJ45 ports 10/100/1000 Mbit/s - 2x SFP ports 1000 Mbit/s
	SCALANCE XC208G	6GK5208-0GA00-2AC2	Available	€ 990	Managed switch – full Gigabit, default setting PROFINET 8x RJ45 ports 10/100/1000 Mbit/s
	SCALANCE XC208G (E/IP Def.)	6GK5208-0GA00-2TC2	Available	€ 990	Managed switch – full Gigabit, default setting EtherNet/IP 8x RJ45 ports 10/100/1000 Mbit/s

SCALANCE XC-200

Order data – Gigabit versions

	Product name	Order number	Start of delivery	List price	Description
	SCALANCE XC216-4C	6GK5216-4BS00-2AC2	Available	€ 1350	• 12x RJ45 ports 10/100 Mbit/s • 4x Gigabit combo port: Either electr. 10/100/1000 Mbit/s or • Optical port (1000Mbit/s SFP) can be used
	SCALANCE XC216-4C G	6GK5216-4GS00-2AC2	Available	€ 1790	• 12x RJ45 ports 10/100/1000 Mbit/s • 4x Gigabit combo port: Either electr. 10/100/1000 Mbits/s or • Optical port (1000Mbit/s SFP) can be used
	SCALANCE XC216-4C G (E/IP Def.)	6GK5216-4GS00-2TC2	Available	€ 1790	• 12x RJ45 ports 10/100/1000 Mbit/s • 4x Gigabit combo port: Either electr. 10/100/1000 Mbits/s or • Optical port (1000Mbit/s SFP) can be used
	SCALANCE XC224-4C G	6GK5224-4GS00-2AC2	Available	€ 2390	• 20x RJ45 ports 10/100/1000 Mbit/s • 4x Gigabit combo port: Either electr. 10/100/1000 Mbits/s or • Optical port (1000Mbit/s SFP) can be used
	SCALANCE XC224-4C G (E/IP Def.)	6GK5224-4GS00-2TC2	Available	€ 2390	• 20x RJ45 ports 10/100/1000 Mbit/s • 4x Gigabit combo port: Either electr. 10/100/1000 Mbits/s or • Optical port (1000Mbit/s SFP) can be used

SCALANCE XC-200

Order data – EEC versions¹⁾

	Product name	Order number	Start of delivery	List price	Description
	SCALANCE XC206-2SFP EEC	6GK5206-2BS00-2FC2	Available	€ 790	Managed switch with conformal coating, 8 ports 10/100 Mbit/s, of which - 6x RJ45 ports - 2x SFP ports 100 or 1000 Mbit/s
	SCALANCE XC206-2SFP G EEC	6GK5206-2GS00-2FC2	Available	€ 990	Managed switch with conformal coating, 8 ports 10/100/1000 Mbit/s, of which - 6x RJ45 ports - 2x SFP ports 1000 Mbit/s
	SCALANCE XC208EEC	6GK5208-0BA00-2FC2	Available	€ 690	Managed switch with conformal coating, 8x RJ45 ports 10/100 Mbit/s
	SCALANCE XC208G EEC	6GK5208-0GA00-2FC2	Available	€ 1090	Managed switch with conformal coating, 8x RJ45 ports 10/100/1000 Mbit/s
	SCALANCE XC216EEC	6GK5216-0BA00-2FC2	Available	€ 1190	Managed switch with conformal coating, 16x RJ45 ports 10/100 Mbit/s
	SCALANCE XC216-4C G EEC	6GK5216-4GS00-2FC2	Available	€ 1890	• 12x RJ45 ports 10/100/1000Mbit/s • 4x Gigabit combo port: Either electr. 10/100/1000Mbit/s or optical port (1000Mbit/s SFP) can be used
	SCALANCE XC224-4C G EEC	6GK5224-4GS00-2FC2	Available	€ 2490	• 20x RJ45 ports 10/100/1000Mbit/s • 4x Gigabit combo port: Either electr. 10/100/1000Mbit/s or optical port (1000Mbit/s SFP) can be used
	C-PLUG (conformal coating)	6GK1900-0AQ00	Available	€ 120	C-PLUG removable storage medium for an easy exchange of devices in case of failure, to record configuration, project and application data, usable in SIMATIC NET products with C-PLUG slot, conformal coating

¹⁾ For the use of the optical XC-200EEC, the lacquered SFP versions are recommended ([see slide 33](#))

SCALANCE XC-200

Order data accessories



	Product name	Order number	Start of delivery	List price	Description
Accessories (included in scope of supply)					
	Push-in terminal block 2-pole	6GK5980-0BB10-0AA5	Available	€ 26.60	2-pole push-in terminal block to connect the signaling contact (DC 24 V), spare part, for SCALANCE X/W/S/M, 5 units per pack
	Push-in terminal block 4-pole	6GK5980-1DB10-0AA5	Available	€ 26.60	4-pole push-in terminal block to connect the power supply (DC 24 V), spare part, for SCALANCE X/W/S/M, 5 units per pack
Power supplies and C-PLUG					
	Power supply SIMATIC PM1507	6EP1332-4BA00	Available	€ 113.00	SIMATIC PM 1507 24 V/3 A stabilized power supply for SIMATIC S7-1500 input: 110 to 230 V AC output: 24 V DC/3 A
	Power supply SIMATIC PM1507	6EP1333-4BA00	Available	€ 159.00	SIMATIC PM 1507 24 V/8 A stabilized power supply for SIMATIC S7-1500 input: AC 120/230 V output: DC 24 V /8 A
	C-PLUG ¹⁾	6GK1900-0AB10	Available	€ 100.00	C-PLUG removable storage medium for an easy exchange of devices in case of failure, to record configuration, project and application data

SCALANCE XC-200

Order data accessories

	Product name	Order number	Start of delivery	List price	Description
Further accessories					
	SIMATIC S7-1500, mounting rail	6ES7590-1AB60-0AA0	Available	€ 18.36	SIMATIC S7-1500, mounting rail; incl. grounding screw, integrated DIN rail for mounting small units such as terminals, MCBs and relays 160 mm (approx. 6.3")
		6ES7590-1AC40-0AA0		€ 30.60	245 mm (approx. 9.6")
		6ES7590-1AE80-0AA0		€ 27.54	482 mm (approx. 19")
		6ES7590-1AF30-0AA0		€ 33.70	530 mm (approx. 20.9")
		6ES7590-1AJ30-0AA0		€ 43.90	830 mm (approx. 32.7")
		6ES7590-1BC00-0AA0		€ 74.50	2000 mm (approx. 78.7") – without grounding screw (must be ordered separately: 6ES7590-5AA00-0AA0, 20 units)
	Screw terminal block 4-pole	6GK5980-1DB00-0AA5	Available	€ 27.10	4-pole Terminal block for power supply (DC 24 V); for SCALANCE X/W/S/M; 1 pack = 5 units
	Screw terminal block 2-pole	6GK5980-0BB00-0AA5	Available	€ 16.30	2-pole Terminal block for signaling contact (DC 24 V); for SCALANCE X/W/S/M; 1 pack = 5 units

SCALANCE XC-200

Order data accessories¹⁾

	Product name	Order number	List price	Description
Accessories for SCALANCE XC206-2SFP				
	SFP plug-in transceiver	6GK5991-1AD00-8AA0	€ 105	SFP991-1, 1x 100 Mbit/s LC port, optical; multimode optical up to max. 5 km
		6GK5991-1AD00-8FA0	€ 130	SFP991-1, 1 x 100 Mbit/s LC port, optical; multimode optical up to max. 5 km, with conformal coating ²⁾
		6GK5991-1AF00-8AA0	€ 155	SFP991-1LD, 1x 100 Mbit/s LC port, optical; single-mode optical up to max. 26 km
		6GK5991-1AF00-8FA0	€ 180	SFP991-1LD, 1 x 100 MBit/s LC port; with conformal coating; optical; singlemode glass up to max. 26 km ²⁾
		6GK5992-1AM00-8FA0	€ 295	SFP992-1LD, 1 x 1000 MBit/s LC port, with conformal coating; optical; singlemode glass up to max. 10 km ²⁾
		6GK5991-1AE00-8AA0	€ 325	SFP991-1LH+, 1x 100 Mbit/s LC port, optical; single-mode optical up to max. 70 km
		6GK5991-1AE30-8AA0	€ 715	SFP991-1ELH200, 1x 100 Mbit/s LC port, optical; single-mode glass up to max. 200 km
		6GK5992-1AL00-8AA0	€ 185	SFP992-1, 1x 1000 Mbit/s LC port, optical; multimode optical up to max. 750 m
		6GK5992-1AG00-8AA0	€ 200	SFP992-1+, 1x 1000 Mbit/s LC port, optical; multimode optical up to max. 2000 m
		6GK5992-1AM00-8AA0	€ 270	SFP992-1LD, 1x 1000 Mbit/s LC port, optical single-mode up to max. 10 km
		6GK5992-1AN00-8AA0	€ 675	SFP992-1LH, 1x 1000 Mbit/s LC port, optical single-mode up to max. 40 km
		6GK5992-1AP00-8AA0	€ 1040	SFP992-1LH+, 1x 1000 Mbit/s LC port, optical single-mode up to max. 70 km
		6GK5992-1AQ00-8AA0	€ 1580	SFP992-1ELH, 1x 1000 Mbit/s LC port, optical single-mode up to max. 120 km
		6GK5992-1AL00-8TA0	€ 400	SFP992-1BXMT; 1x 1000 Mbit/s LC port, optical; multimode optical, for glass fiber optic cables, up to max. 500 m BiDi Transceiver 1550 nm/1310 nm
		6GK5992-1AL00-8RA0	€ 400	SFP992-1BXMR; 1x 1000 Mbit/s LC port, optical; multimode optical, for glass fiber optic cables, up to max. 500 m BiDi Receive 1310 nm/1550 nm

¹⁾ Further ordering data for accessories in the [annex](#)

²⁾ For the use of the optical XC-200EEC, the lacquered SFP versions are recommended

Fiber Optic – Coupler cables

Via the coupler cables shown below, existing FOC cables with ST(BFOC) or SC plugs can be adapted to the LC component mounting technology (SFPs).

	Product name	Order number	Description
	Multimode FO Cord SC/LC	6XV1843-5EH10-0CA0	SC/LC; 50/125; assembled with 1x SC duplex connector and 1x LC duplex connector; Length 1.0 m
	Singlemode FO Cord SC/LC	6XV1843-5FH10-0CA0	SC/LC; 9/125, assembled with 1x SC duplex connector and 1x LC duplex connector; Length 1.0 m
	SC/SC Coupler	6GK1900-1LP00-0AB0	FC FO SC coupler for on-site mounting to FC FOC cables (62.5/200/230) Pack: 5 units duplex coupler
	Multimode FO Cord LC/ST(BFOC)	6XV1843-5EH10-0AB0	ST(BFOC)/LC; 50/125; pre-assembled with 1x LC duplex connector and 2x BFOC connector; Length 1.0 m
	Singlemode FO Cord LC/ST(BFOC)	6XV1843-5FH10-0AB0	ST(BFOC)/LC; 9/125; pre-assembled with 1x LC duplex connector and 2 x BFOC connector; Length 1.0 m
	ST(BFOC)/ST(BFOC) Coupler	6GK1900-1GP00-0AB0	FC FO BFOC coupler for on-site mounting to FC FOC cables (62.5/200/230) Pack: 10 units



SCALANCE XC-200

Approvals



CE, KC, EAC, RCM (prev. C-Tick),

EMC (electromagnetic compatibility)

Emitted interference EN 61000-6-4

Immunity to interference EN 61000-6-2

Trackside railway approval EN 50121-4

Safety of electrical equipment

UL 60950-1, CSA C22.2 No. 60950-1-03;

UL 61010-2-201, CSA C22.2 No. 61010-2-201

Hazardous area – Zone 2

ATEX (EN 60079-0, EN 60079-15: II 3 G Ex nA IIC T4 Gc)

IECEX (IEC 60079-0, IEC 60079-15 : Ex nA II T4 Gc)

UL/CSA (UL 60950-1; ANSI/ISA 12.12.01-2007; CSA C22.2 No. 213-M1987)

cULus HazLoc (CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4)

FM (FM3611, CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4 Ta: -40 °C to +70 °C)

Marine¹⁾

ABS (American Bureau of Shipping, USA)

BV (Bureau Veritas, France)

DNV GL (Det Norske Veritas Germanischer Lloyd, Norway and Germany)

LRS (Lloyd's Register of Shipping, GB)

PRS (Polski Rejestr Statkow, Poland)

RINA (Registro Italiano Navale, Italy)

CCS (China Classification Society)



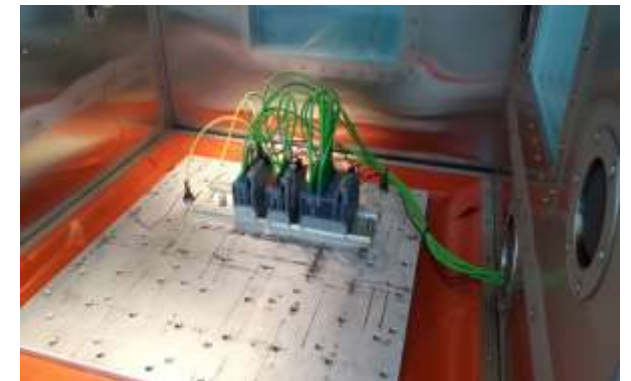
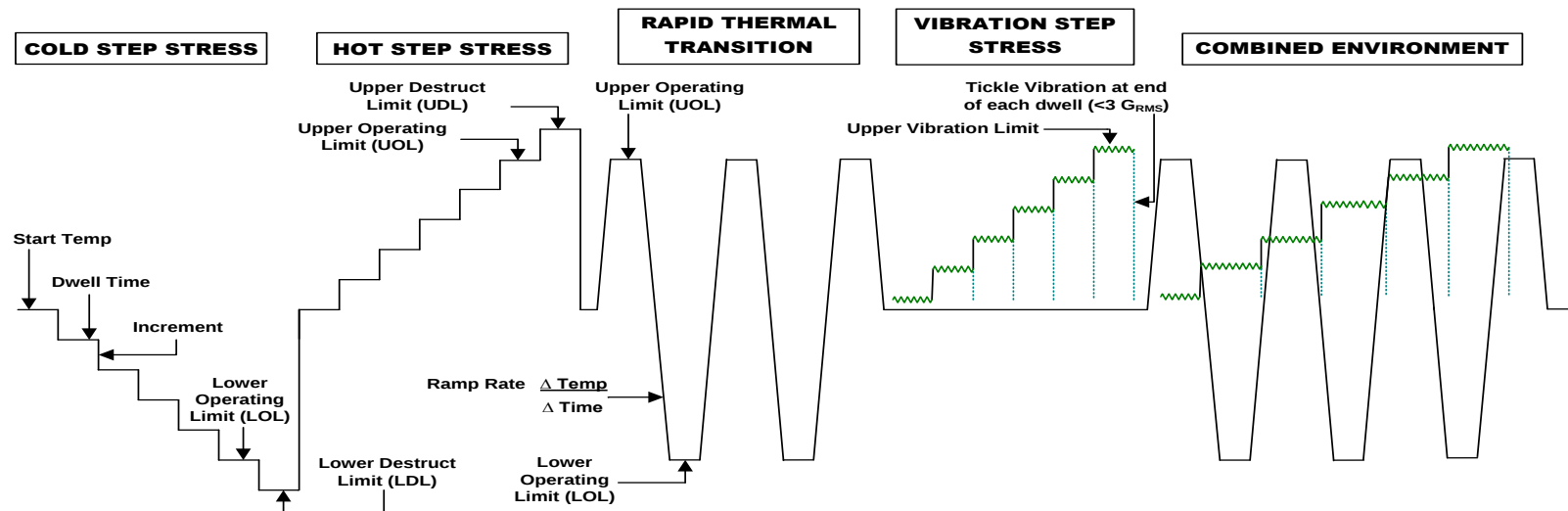
¹⁾ Planned for all variants, certificate updates can be found in SIOS

SCALANCE XC-200

Highly Accelerated Life Test (HALT)



- In the case of a "HALT", the products are subjected to an accelerated lifecycle by means of defined test cycles with extreme overloading to determine weaknesses in the material and design within a very short period of time
- The individual test scenarios are carried out at very low and very high temperatures with rapid temperature transitions and extremely heavy shock and vibration loads
- The maximum load on the devices yields information that is suitable for optimizing the design and leads to products with increased robustness and high quality.
- SCALANCE XC-200 benefits from this, because with "HALT" Siemens has defined an additional measure for ensuring the quality of Industrial Communication products.



SCALANCE XC-200

The new managed product line for universal usage



Characteristic/function

Versions with SFP ports: Gigabit capable and electively single and multimode¹⁾

Electrical and optical Gigabit ports

VLAN, RSTP, HRP, MRP, IGMP

Temperature range: -40 °C to +70 °C

It can be switched between PROFINET and EtherNet/IP in one device

Mounting on wall, DIN rail, S7-300 or S7-1500 mounting rail

Trackside railway approval (EN 50121-4)

ATEX Zone 2 / IECEx, cULus HazLoc, FM, Marine approvals

Benefits

Flexibility due to freely selectable SFP transceivers, depending on the cable length and performance that is needed

A broad spectrum for challenging applications (e.g. camera applications)

Many FW functions allow flexible usage of the switches

Use in areas with harsh environmental conditions

Use in new markets/industries when manufacturer-neutral controllers are used

Many mounting options for quick and convenient mounting

Permitted for rail operations (trackside)

Wide range of additional permits for worldwide operation in a variety of areas

¹⁾ XC206-2SFP G and devices with combo ports: Only Gigabit SFPs can be plugged in

SCALANCE XC-200EEC

Additional features/functions and benefits

The SCALANCE XC-200EEC product line supports all hardware and firmware features of the entire SCALANCE X-200 line and in addition:



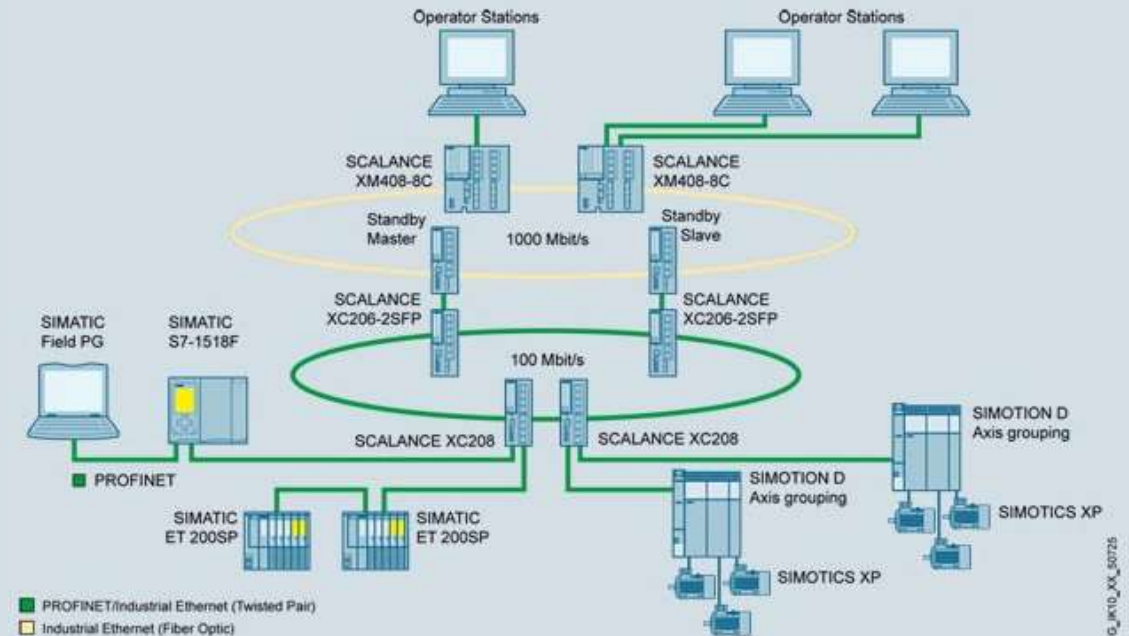
Characteristic/function	Benefits
NAMUR NE 21-compliant, conformal coating, mounting altitude up to 4000 m	▶ Suitable for use in all established process control systems e.g. PCS 7
S2-system redundancy	▶ Full integration in SIMATIC PCS 7 and thereby consistent system diagnosis with PROFINET
CiR/H-CiR	▶ Change of configuration and/or replacement during operation
PA ready = MRP + S2 + CiR	▶ For unrestricted application in process automation IO-Devices have to support at least the following functionalities: - Basic S2-system redundancy - Media Redundancy Protocol (MRP) - Configuration in Run (CiR) To tag those IO-Devices clearly, which fulfill PA's requirements of availability and configuration during operation, Siemens uses the symbol PA ready

Use case "High availability in automation plants"

Several machine parts are to be redundantly connected via a ring and connected via an additional redundant connection to the communication center.

SCALANCE XC208 and SCALANCE XC206-2SFP use the Highspeed Redundancy Protocol (HRP) and the Standby Master/Slave function for redundant coupling.

- HRP with reconfiguration times up to 300 ms
- Standby Master/Slave implements the redundant coupling of multiple rings
- SCALANCE XC206-2SFP with 100 and 1000 Mbit/s SFPs for high performance



SCALANCE XC-200

Use case "Fiber-optic cable diagnostics"

Task

The optical connection is to be monitored to detect signs of aging and the degree of contamination and to take preventive measures.

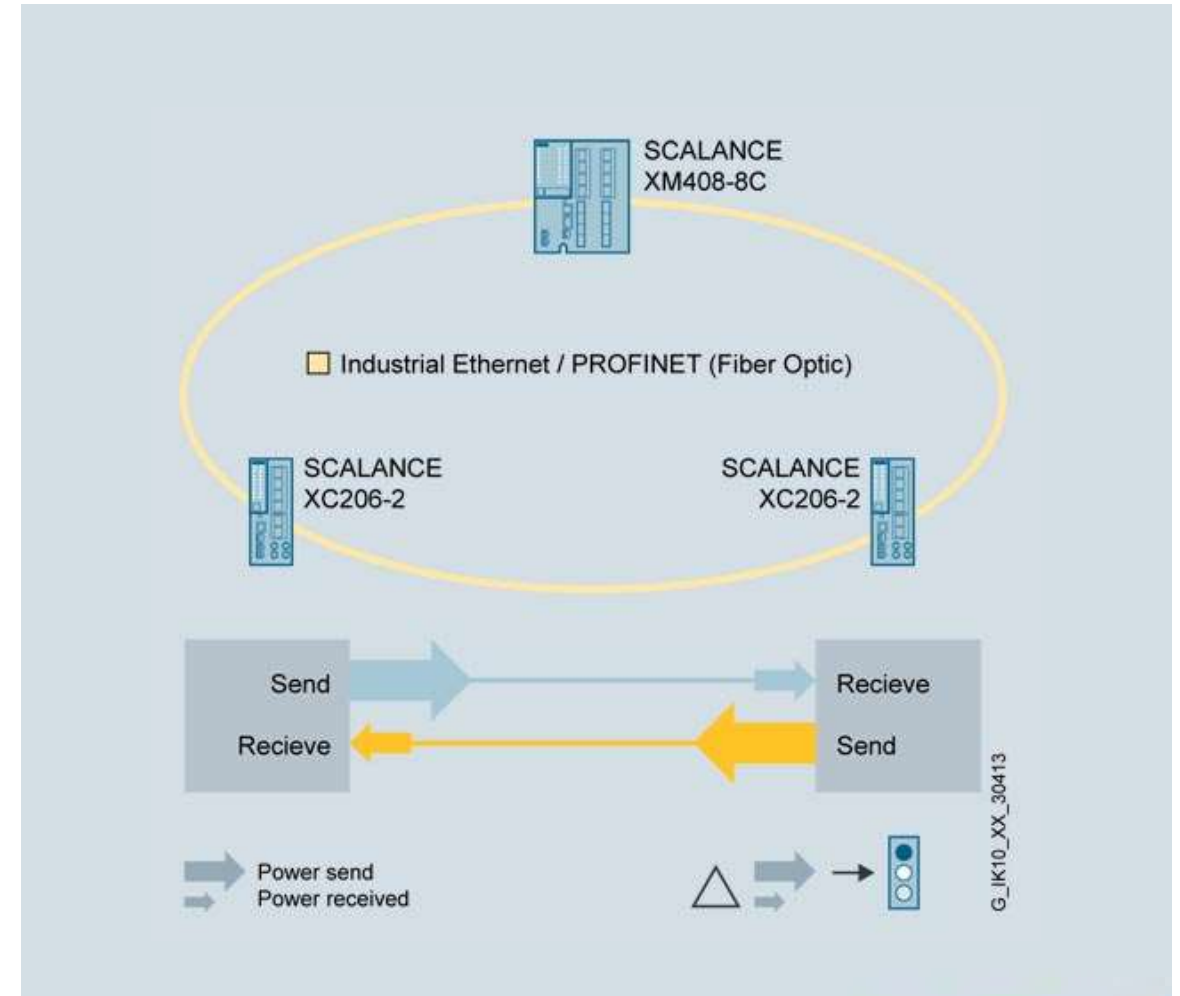
Solution

Firmware function fiber monitoring:

The fiber-optic section established between two SCALANCE XC206-2 is continuously measured for quality. When a defined threshold value is undershot, a message is sent out (e.g. via log, e-mail, trap, etc.)

Benefits

- Predictive maintenance (response before the plant fails)
- Avoidance of downtimes
- In addition to SCALANCE XM-400, the firmware function is now also available in SCALANCE XC206-2 and SCALANCE XC206-2SFP



SCALANCE XC-200

Use case "Rugged communication in tunnels"

Task

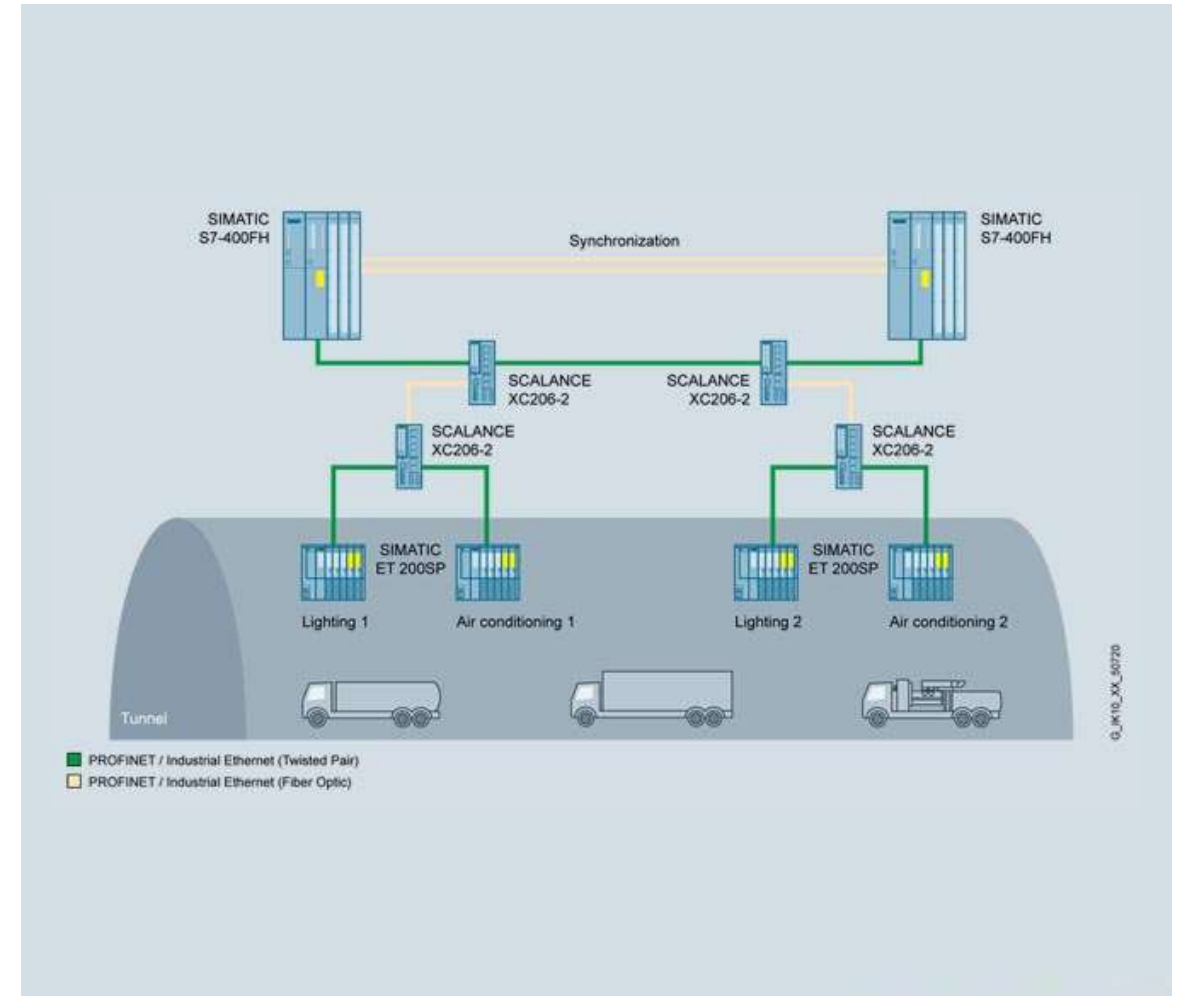
In tunnels, infrastructure communication and data must be transmitted over long distances to the control center.

Solution

The fanless SCALANCE XC206-2 connects the individual station peripherals (e.g. lighting, ventilation) and transfers the data to the control center via fiber-optic cables and the redundant network. For large volumes of data, the SCALANCE XC206-2SFP with two Gigabit ports is used.

Benefits

- Flexibility due to SFP (SM, MM, 100 or 1000 Mbit/s)
- Operation without fan
- Redundancy mechanisms (MRP, HRP, HRP Standby Master/Slave)



SCALANCE XC-200

Use case "Networking of halls"



Task

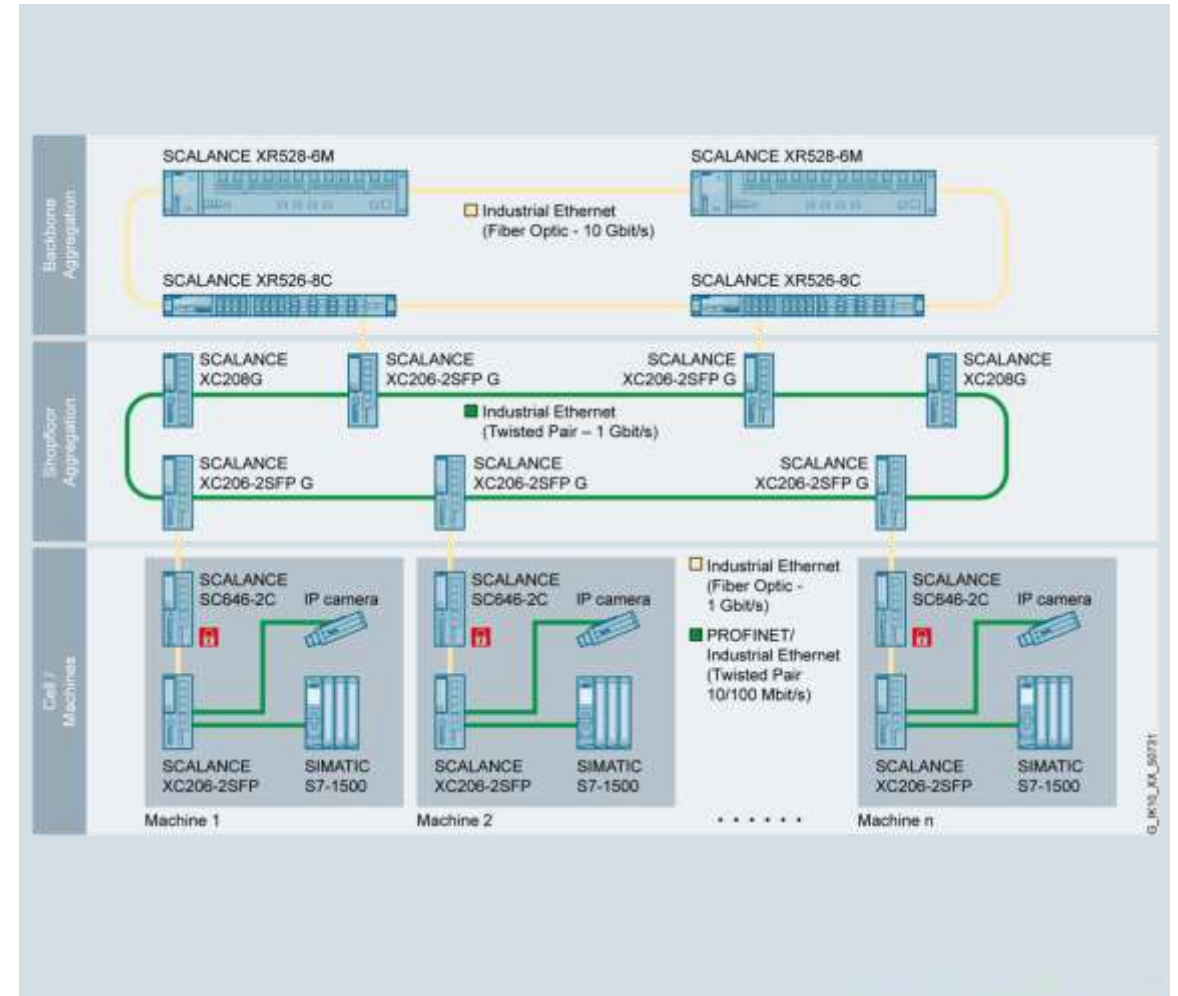
Several machines in one hall are to be linked and connected to the upper network.

Solution

SCALANCE XC-200 switches connect the automation components of every machine. The Gigabit variants enable a reliable connection and communication in upper networks even with a higher network load.

Benefits

- High data transfer with SCALANCE XC-200 due to Gigabit
- Reliable and robust network due to firmware functions such as redundancy, VLANs, link aggregation



SCALANCE XC-200 - Use case "Communication on rail-guided routes (trackside)"

Task

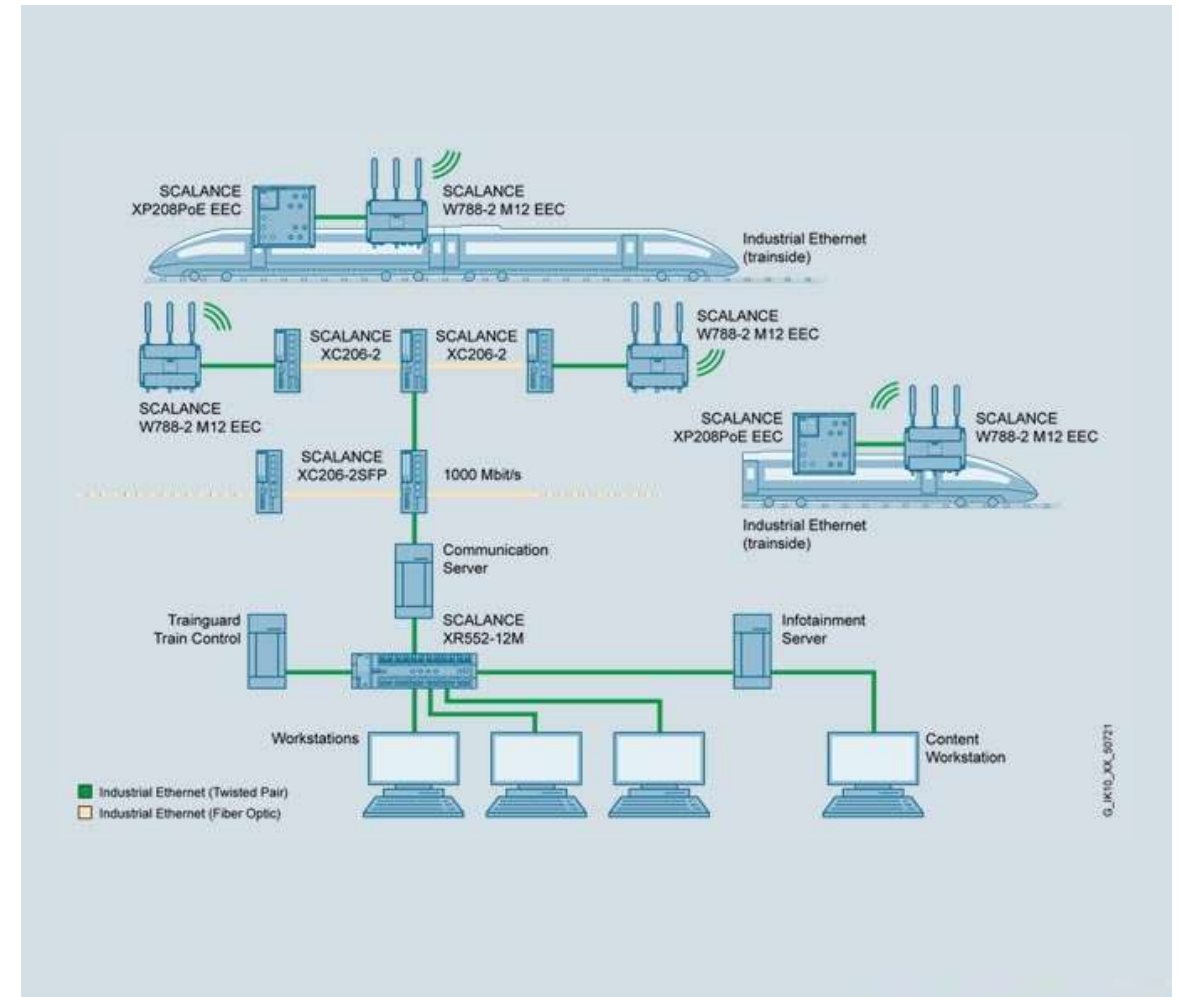
Setup of distributed access points along rail sections with corresponding approval of the products.

Solution

SCALANCE XC-200 has the trackside railway approval (EN 50121-4) and is mounted on the Industrial Ethernet access points. Communication, e.g. in the trains, takes place via Industrial Wireless LAN.

Benefits

- Reliable operation in harsh environments with extended temperature range from -40 °C to +70 °C
- Transmission of high volumes of data up to 1 Gbit/s
- Fast and simple diagnostics thanks to signaling contact



SCALANCE XC-200

Use case "Service Bridge"

Task

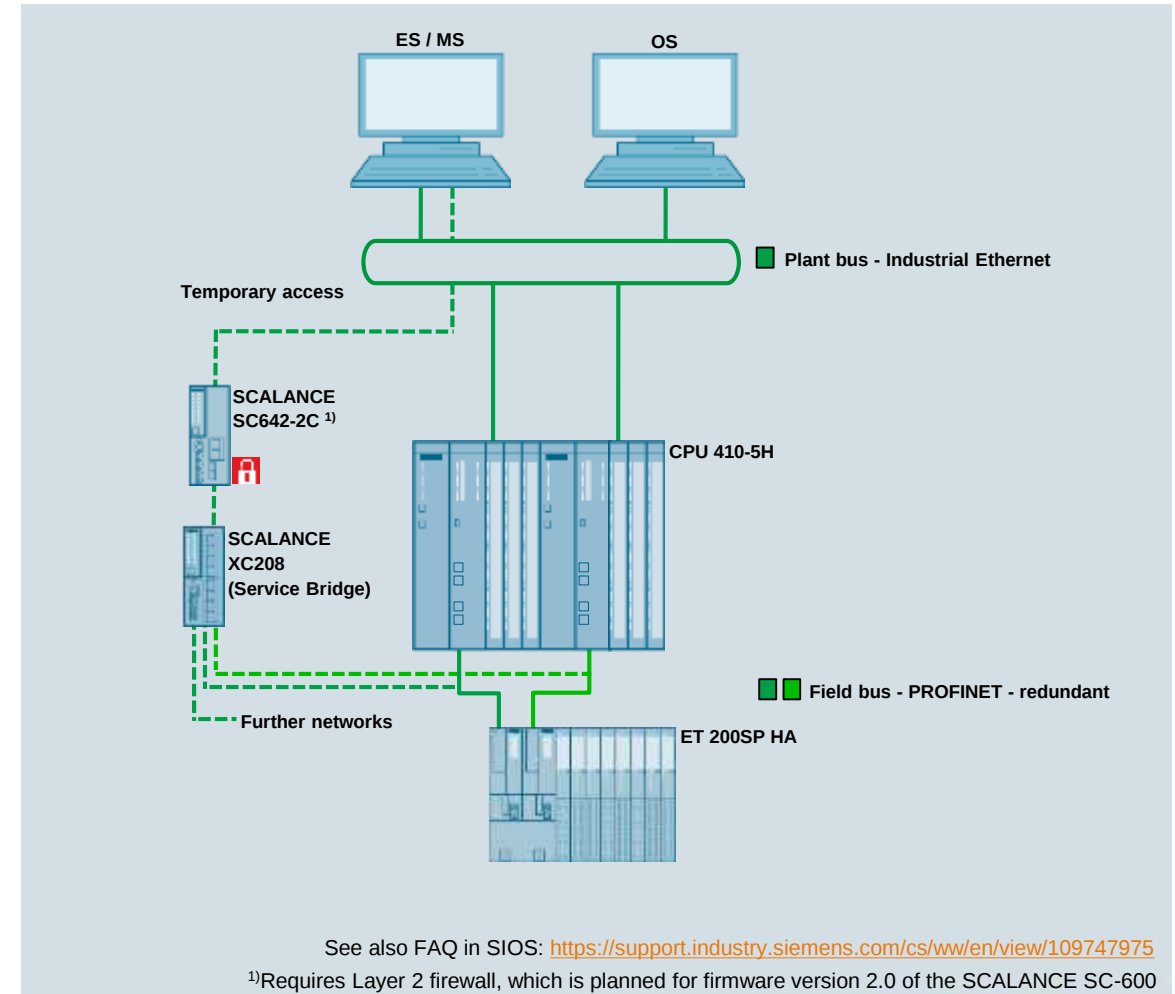
Plant bus and field bus are established separately in typical facilities of process industry because of security and availability reasons.

Solution

The Service Bridge is a specially configured SCALANCE XC-200 switch, which enables a dedicated temporary access from plant bus to field bus and simultaneously ensures the logical separation between the field busses. The Industrial Security Appliance SCALANCE SC-600 ensures Security between plant bus and Service Bridge.

Benefits

Access and configuration of field bus network components from the plant bus. Advantage of the Service Bridge: The separation of the redundant PROFINET lines remains constant.



SCALANCE XC-200

Use case "Redundant controllers SIMATIC S7-1500R"

Task

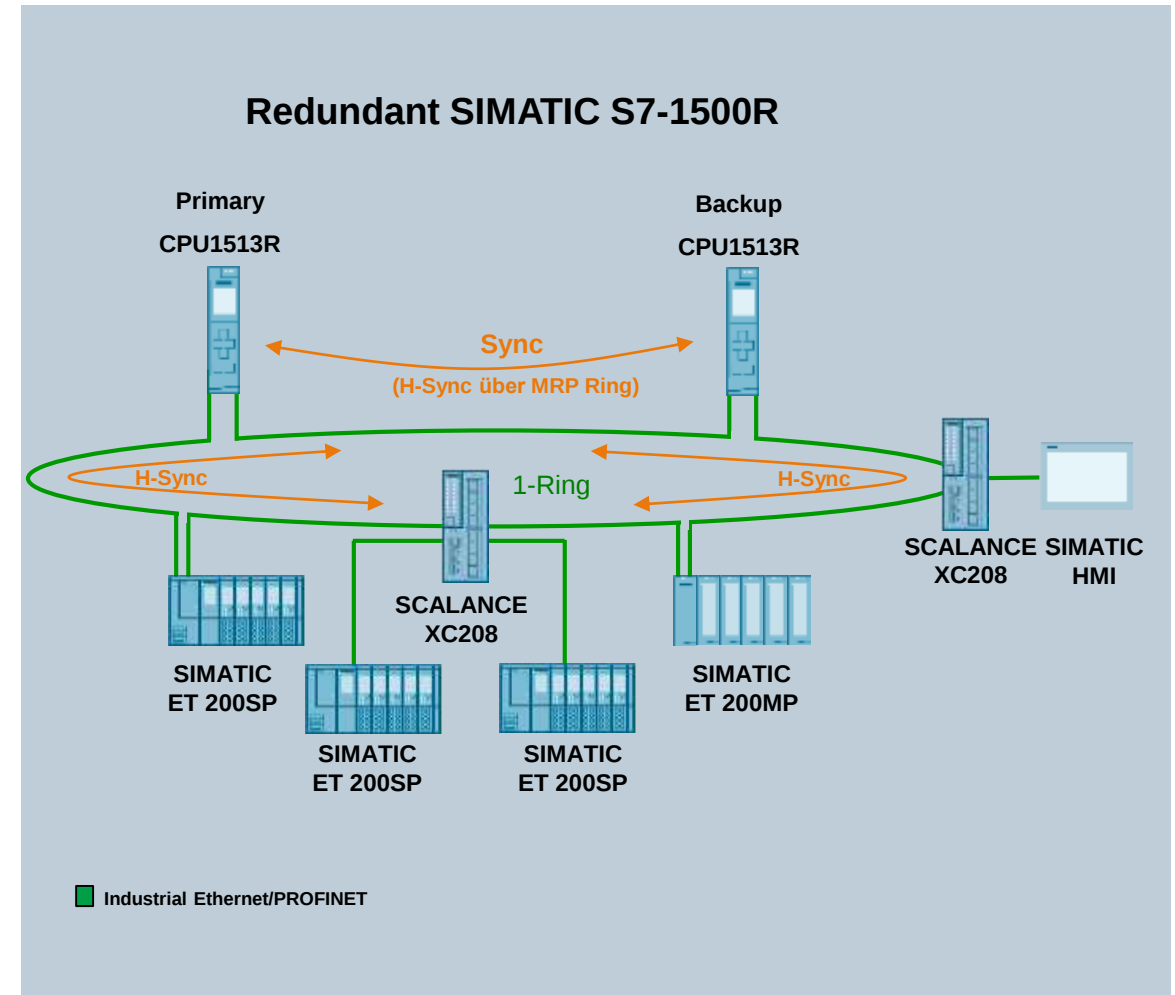
Connection of PROFINET communication participants with a redundant controller (SIMATIC S7-1500R).

Solution

The Industrial Ethernet switches SCALANCE XF-200BA, XC-200 and XP-200 support H-Sync and S2-system redundancy¹⁾. The synchronization of the redundant controller is realized by a MRP ring with H-Sync.

Benefits

- Inclusion of switches due to the support of S2-system redundancy in S7-1500R systems
- Connection of further PROFINET communication participants (Currently max. 16 participants in the ring with S7-1500R²⁾)



¹⁾ Support from firmware 4.0

²⁾ For latest details please check the S7-1500H manual

SCALANCE XC-200

Use case "High-available controllers SIMATIC S7-1500H"



Task

Connection of PROFINET communication participants with a redundant controller (SIMATIC S7-1500H).

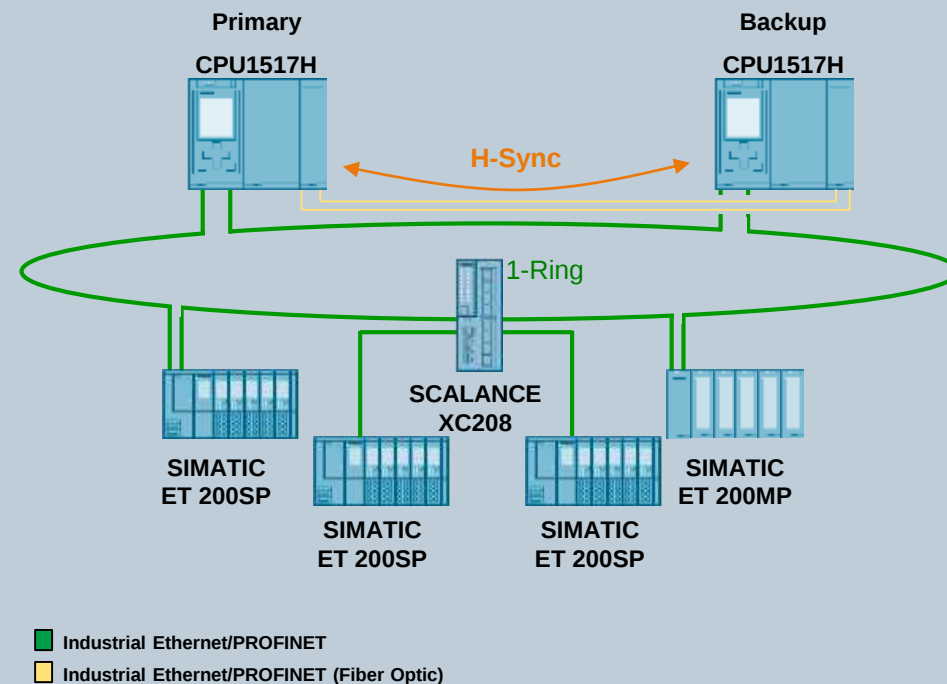
Solution

The Industrial Ethernet switches SCALANCE XF-200BA, XC-200 and XP-200 support S2-system redundancy¹⁾. The synchronization of the high-available controller is realized by synchronization modules.

Benefits

- Inclusion of switches due to the support of S2-system redundancy in S7-1500H systems
- Connection of further PROFINET communication participants²⁾ (max. 50 participants in the MRP ring)

High-available SIMATIC S7-1500H



¹⁾ Support from firmware 4.0

²⁾ For latest details please check the S7-1500H manual

SCALANCE XC-200

Useful links

SIEMENS
Ingenuity for life

Product information / web page → [Link](#)

SIMATIC NET Selection Tool → [Link](#)

TIA Selection Tool → [Link](#)

Technical documentation – XC-200 → [Link](#)

Technical documentation – XC-200EEC → [Link](#)

Reference Center → [Link](#)

Industry Mall → [Link](#)

CAX Data → [Link](#)

Image database → [Link](#)

SIOS announcement about migration (X-200 --> XC-200) → [Link](#)

SIOS announcement about migration (X-300 --> XC-200) → [Link](#)



SCALANCE XC-200

Order data accessories – cables

	Product name	Order number	Start of delivery	Description
Cables – preassembled 2 x 2				
	IE Connecting Cable M12-180 / IE FC RJ45 Plug 145	6XV1871-5TH20	Available	Flexible connecting cable (4-wire), preassembled with a 4-pole M12 plug (D-coded) and an IE FC RJ45 Plug 145, for connecting Industrial Ethernet nodes
		6XV1871-5TH30		2 m
		6XV1871-5TH50		3 m
		6XV1871-5TN10		5 m
		6XV1871-5TN15		10 m
				15 m
	IE Connecting Cable IE FC RJ45 Plug 180 / IE FC RJ45 Plug 180	6XV1871-5BH10	Available	IE FC TP trailing cable GP 2 x 2 (PROFINET Type C), preassembled with two IE FC RJ45 pugs 180, protection class IP20
		6XV1871-5BH20		1 m
		6XV1871-5BH30		2 m
		6XV1871-5BH50		3 m
		6XV1871-5BN10		5 m
		6XV1871-5BN15		10 m
		6XV1871-5BN20		15 m
				20 m

SCALANCE XC-200

Order data accessories – cables

	Product name	Order number	Start of delivery	Description
Cables – preassembled 4 x 2				
	IE TP Cord RJ45/RJ45	6XV1870-3QE50	Available	8-wire Cat6A patch cable, preferred length, preassembled with two RJ45 connectors
				0,5 m
		6XV1870-3QH10		1 m
		6XV1870-3QH20		2 m
		6XV1870-3QH30		3 m
		6XV1870-3QH40		4 m
		6XV1870-3QH60		6 m
		6XV1870-3QN10		10 m
		6XV1870-3QN15		15 m
		6XV1870-3QN20		20 m
		6XV1870-3QN25		25 m
		6XV1870-3QN30		30 m
		6XV1870-3QN35		35 m
		6XV1870-3QN40		40 m
		6XV1870-3QN45		45 m
		6XV1870-3QN50		50 m

SCALANCE XC-200

Order data accessories – cables

	Product name	Order number	Start of delivery	Description
Cables – preassembled 4 x 2				
	IE TP XP Cord RJ45/RJ45	6XV1870-3RE50	Available	Crossed 8-wire Cat6A Patch cable, preferred length, preassembled with two RJ45 connectors
		6XV1870-3RH10		0,5 m
		6XV1870-3RH20		1 m
		6XV1870-3RH60		2 m
		6XV1870-3RN10		6 m
	IE Connecting Cable RJ45-180/RJ45-180	6XV1878-5BH20	Available	10 m
		6XV1878-5BH30		IE FC Trailing Cable GP 4x2 pre-assembled with 2x IE FC RJ45 plug 180 4 x 2
		6XV1878-5BH50		2 m
		6XV1878-5BN10		3 m
		6XV1878-5BN15		5 m
		6XV1878-5BN20		10 m
		6XV1878-5BN25		15 m
		6XV1878-5BH30		20 m
				25 m
				30 m

SCALANCE XC-200

Order data accessories – plugs

	Product name	Order number	Start of delivery	Description
Plug for 2 x 2 for self-assembly				
	IE FC RJ45 Plug 180 2x2	6GK1901-1BB10-2AA0	Available	RJ45 data plug-in connector; for connecting to IE FC TP cables 2x2, robust metal housing, 180° cable outlet 1 unit
		6GK1901-1BB10-2AB0		10 units
		6GK1901-1BB10-2AE0		50 units
	IE FC RJ45 Plug 145 2x2	6GK1901-1BB30-2AA0	Available	RJ45 data plug-in connector; for connecting to IE FC TP cables 2x2, robust metal housing, 145° cable outlet 1 unit
		6GK1901-1BB30-2AB0		10 units
		6GK1901-1BB30-2AE0		50 units
	IE FC RJ45 Plug 180 4x2	6GK1901-1BB12-2AA0	Available	Cat6 _A RJ45 data plug-in connector, for IE FC Cable 4x 2, AWG24, suitable for fast assembly with the FastConnect system 1 unit
		6GK1901-1BB12-2AB0		10 units
		6GK1901-1BB12-2AE0		50 units

SCALANCE XC-200

Order data accessories – cables

	Product name	Order number	Start of delivery	Description
Cables – 4-wire for self-assembly				
	IE FC TP Standard Cable GP 2 x 2 (Type A)	6XV1840-2AH10	Available	Standard bus cable (4-wire), for permanent routing, rigid cores for quick assembly
	IE FC TP Robust Standard Cable GP 2 x 2 (Type A)	6XV1841-2A	Available	Robust standard bus cable (4-wire), for harsh industrial environments
	IE FC TP Flexible Cable GP 2 x 2 (Type B)	6XV1870-2B	Available	Flexible bus cable (4-wire), for machine parts that move occasionally
	IE FC Robust Flexible Cable GP 2 x 2 (Type B)	6XV1841-2B	Available	Robust, flexible bus cable (4-wire), for harsh industrial environments
	IE FC TP FRNC Cable GP 2 x 2 (Type B)	6XV1871-2F	Available	Flexible, halogen-free bus cable (4-wire), for machine parts that move occasionally
	IE FC TP Trailing Cable GP 2 x 2 (Type C)	6XV1870-2D	Available	Highly flexible bus cable (4-wire), continuous motion control in a drag chain
	IE FC TP Food Cable 2 x 2 (Type C)	6XV1871-2L	Available	Flexible bus cable (4-wire), for food and beverages industry
	IE FC TP Marine Cable 2 x 2 (Type B)	6XV1840-4AH10	Available	Bus cable (4-wire), for marine and offshore applications
	IE TP Ground Cable 2 x 2 (Type C)	6XV1871-2G	Available	Bus cable (4-wire) for fixed routing in the ground

SCALANCE XC-200

Order data accessories – cables

	Product name	Order number	Start of delivery	Description
Cables – 8-wire for self-assembly				
	IE FC TP Standard Cable GP	6XV1870-2E	Available	Standard bus cable 4 x 2, AWG22, Standard cable with rigid cores for fast, permanent installation, sold by the meter, delivery length max. 1000 m minimum order 20 m
	IE FC TP Standard Cable GP	6XV1878-2A	Available	Standard bus cable 4 x 2, AWG24, Standard cable with rigid cores for fast, permanent installation, sold by the meter, delivery length max. 1000 m minimum order 20 m
	IE FC TP Flexible Cable GP	6XV1878-2B	Available	Bus cable 4 x 2, AWG24/7, with flexible cores, flexible cable for quick assembly, for occasionally moving machine parts, sold by the meter, delivery length max. 1000 m minimum order 20 m
	IE TP Train Cable GP	6XV1878-2T	Available	Bus cable 4 x 2, AWG24/7 with flexible cores for rail applications, railway-certified, sold by the meter, max. delivery length 1000 m, Minimum order 20 m
	IE FC TP Trailing Cable	6XV1878-2C	Available	FastConnect TP Trailing Cable GP 4x2 TP installation cable CAT6A, for connection to IE FC RJ45 plug 4x 2, AWG24, sold by the meter, delivery length max. 1000 m minimum order 20 m
	IE FC TP Ground Cable	6XV1878-2G	Available	Extension ground cable 4 x 2, CAT6A, shielded, cable for Connection to IE FC RJ45 plug 4x2, AWG24, Sold by the meter Delivery length max. 1000 m Minimum order 20 m

SCALANCE XC-200

Order data accessories – fiber-optic cables

	Product name	Order number	Start of delivery	Description
Preassembled fiber-optic cables with 4 ST/BFOC plugs				
	Multimode FO Cord SC/LC	6XV1843-5EH10-0CA0	Available	SC/LC; 50/125; assembled with 1x SC duplex connector and 1x LC duplex connector
	Singlemode FO Cord SC/LC	6XV1843-5FH10-0CA0	Available	SC/LC; 9/125, assembled with 1x SC duplex connector and 1x LC duplex connector
	Multimode FO Cord LC/LC	6XV1843-5EH10-0AA0	Available	LC/LC; 50/125; pre-assembled with 2x2 LC Duplex connectors
	Singlemode FO Cord LC/LC	6XV1843-5FH10-0AA0	Available	LC/LC; 9/125, pre-assembled with 2x2 LC Duplex connectors
	Multimode FO Cord SC/SC	6XV1843-5EH10-0CC0	Available	SC/SC; 50/125; assembled with 2x SC Duplex connectors
	Singlemode FO Cord SC/SC	6XV1843-5FH10-0CC0	Available	SC/SC; 9/125, assembled with 2x2 SC Duplex connectors
	Multimode FO Cord LC/ST(BFOC)	6XV1843-5EH10-0AB0	Available	BFOC/LC; 50/125; pre-assembled with 1x LC duplex connector and 2x BFOC connector
	Singlemode FO Cord LC/ST(BFOC)	6XV1843-5FH10-0AB0	Available	BFOC/LC; 9/125; pre-assembled with 1x LC duplex connector and 2 x BFOC connector
	Multimode FO Cord SC/ST(BFOC)	6XV1843-5EH10-0CB0	Available	SC/BFOC; 50/125; assembled with 1x SC Duplex connector and 1x BFOC connector
	Singlemode FO Cord SC/ST(BFOC)	6XV1843-5FH10-0CB0	Available	SC/ST(BFOC); 9/125; assembled with 1x SC duplex connectors and 1x, BFOC connectors

SCALANCE XC-200

Order data accessories – fiber-optic cables

	Product name	Order number	Start of delivery	Description
Preassembled fiber-optic cables with 4 ST/BFOC plugs				
	Standard Cable GP 50/125/1400 (OM 2)	6XV1873-3AH05	Available	Flexible glass fiber-optic cable; cable for use indoors and outdoors; UL approval, assembled with 4 ST/BFOC plugs
				0,5 m
		6XV1873-3AH10		1,0 m
		6XV1873-3AH20		2,0 m
		6XV1873-3AH30		3,0 m
		6XV1873-3AH50		5,0 m
		6XV1873-3AN10		10 m
		6XV1873-3AN15		15 m
		6XV1873-3AN20		20 m
		6XV1873-3AN30		30 m
		6XV1873-3AN40		40 m
		6XV1873-3AN50		50 m
		6XV1873-3AN80		80 m
		6XV1873-3AT10		100 m
		6XV1873-3AT15		150 m
		6XV1873-3AT20		200 m
		6XV1873-3AT30		300 m

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Order data accessories – fiber-optic cables

	Product name	Order number	Start of delivery	Description
Preassembled fiber-optic cables with 2 SC plugs				
	Standard Cable GP 50/125/1400 (OM 2)	6XV1873-6AH05	Available	Flexible glass fiber-optic cable; cable for use indoors and outdoors; UL approval, assembled with 2 SC plugs
				0,5 m
		6XV1873-6AH10		1,0 m
		6XV1873-6AH20		2,0 m
		6XV1873-6AH30		3,0 m
		6XV1873-6AH50		5,0 m
		6XV1873-6AN10		10 m
		6XV1873-6AN15		15 m
		6XV1873-6AN20		20 m
		6XV1873-6AN30		30 m
		6XV1873-6AN40		40 m
		6XV1873-6AN50		50 m
		6XV1873-6AN80		80 m
		6XV1873-6AT10		100 m
		6XV1873-6AT15		150 m
		6XV1873-6AT20		200 m
		6XV1873-6AT30		300 m

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Order data accessories – fiber-optic cables



	Product name	Order number	Start of delivery	Description
Preassembled fiber-optic cables with 4 ST/BFOC plugs				
	Standard fiber-optic cable 62.5/125/900, apportionable (OM 1)	6XV1820-5BH10	Available	Flexible glass fiber-optic cable; cable for use indoors and outdoors; assembled with 4 ST/BFOC plugs
				1,0 m
		6XV1820-5BH20		2,0 m
		6XV1820-5BH30		3,0 m
		6XV1820-5BH40		4,0 m
		6XV1820-5BH50		5,0 m
		6XV1820-5BN10		10 m
		6XV1820-5BN15		15 m
		6XV1820-5BN20		20 m
		6XV1820-5BN30		30 m
		6XV1820-5BN40		40 m
		6XV1820-5BN50		50 m
		6XV1820-5BN55		55 m
		6XV1820-5BN60		60 m
		6XV1820-5BN65		65 m
		6XV1820-5BN70		70 m
		6XV1820-5BN75		75 m
		6XV1820-5BN80		80 m
		6XV1820-5BT10		100 m
		6XV1820-5BT12		120 m
		6XV1820-5BT13		130 m
		6XV1820-5BT15		150 m
		6XV1820-5BT20		200 m
		6XV1820-5BT25		250 m
		6XV1820-5BT30		300 m

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Order data accessories – fiber-optic cables

	Product name	Order number	Start of delivery	Description
Preassembled fiber-optic cables with 4 ST/BFOC plugs				
	Indoor fiber-optic cable 62.5/125/900, apportionable (OM 1)	6XV1820-7BH05	Available	Glass fiber-optic cable; non-crush, halogen-free and extremely flame-retardant cable for use indoors; assembled with 4 ST/BFOC plugs 0,5 m
		6XV1820-7BH10		1,0 m
		6XV1820-7BH20		2,0 m
		6XV1820-7BH30		3,0 m
		6XV1820-7BH50		5,0 m
		6XV1820-7BN10		10 m
		6XV1820-7BN15		15 m
		6XV1820-7BN20		20 m
		6XV1820-7BN25		25 m
		6XV1820-7BN50		50 m
		6XV1820-7BN75		75 m
		6XV1820-7BT10		100 m

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Order data accessories – fiber-optic cables

	Product name	Order number	Start of delivery	Description
Preassembled fiber-optic cables with 4 ST/BFOC plugs				
	Flexible trailing fiber-optic cable 62.5/125/1400, apportionable (OM 1)	6XV1820-6BH10	Available	Flexible glass fiber-optic cable; for use in drag chains indoors and outdoors; assembled with 4 ST/BFOC plugs
				1,0 m
		6XV1820-6BH20		2,0 m
		6XV1820-6BH30		3,0 m
		6XV1820-6BH50		5,0 m
		6XV1820-6BN10		10 m
		6XV1820-6BN15		15 m
		6XV1820-6BN20		20 m
		6XV1820-6BN30		30 m
		6XV1820-6BN50		50 m
		6XV1820-6BN75		75 m
		6XV1820-6BT10		100 m

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Order data accessories – fiber-optic cables

	Product name	Order number	Start of delivery	Description
Preassembled fiber-optic cables				
	FO Trailing Cable 50/125/1400 (OM 2) – assembled with 4 x ST/BFOC plugs	6XV1873-3CH30	Available	Glass fiber-optic cable; flexible cable for use in drag chains under high mechanical stress, no UL approval, assembled with 4 x ST/BFOC plugs
				3,0 m
		6XV1873-3CH50		5,0 m
		6XV1873-3CN10		10 m
		6XV1873-3CN20		20 m
		6XV1873-3CN50		50 m
		6XV1873-3CT10		100 m
	FO Trailing Cable 50/125/1400 (OM 2) – assembled with 2 x SC plugs	6XV1873-6CH30	Available	Glass fiber-optic cable; flexible cable for use in drag chains under high mechanical stress, no UL approval, assembled with 2 x SC plugs
				3,0 m
		6XV1873-6CH50		5,0 m
		6XV1873-6CN10		10 m
		6XV1873-6CN20		20 m
		6XV1873-6CN50		50 m
		6XV1873-6CT10		100 m

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Order data accessories – fiber-optic cables

	Product name	Order number	Start of delivery	Description
Preassembled fiber-optic cables				
	FO Trailing Cable GP 50/125) – assembled with 4 x ST/BFOC plugs	6XV1873-3DH30	Available	UL approval, trailing cable, apportionable, preassembled with 4 x SC plugs
				3,0 m
		6XV1873-3DH50		5,0 m
		6XV1873-3DN10		10 m
		6XV1873-3DN20		20 m
		6XV1873-3DN50		50 m
		6XV1873-3DT10		100 m
	FO Trailing Cable GP 50/125) – assembled with 2 x SC plugs	6XV1873-6DH30	Available	UL approval, trailing cable, apportionable, preassembled with 2 x SC plugs
				3,0 m
		6XV1873-6DH50		5,0 m
		6XV1873-6DN10		10 m
		6XV1873-6DN20		20 m
		6XV1873-6DN50		50 m
		6XV1873-6DT10		100 m

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Order data accessories – fiber-optic cables

	Product name	Order number	Start of delivery	Description
Preassembled fiber-optic cables				
	FO Ground Cable 50/125/1400 (OM 2) – assembled with 4 x ST/BFOC plugs	6XV1873-3GT10	Available	Glass fiber-optic cable; longitudinally and laterally watertight cable for use indoors and outdoors with non-metallic rodent protection and for direct underground installation; assembled with 4 x ST/BFOC plugs
		6XV1873-3GT20		100 m
		6XV1873-3GT30		200 m
	FO Ground Cable 50/125/1400 (OM 2) – assembled with 2 x SC plugs	6XV1873-6GT10	Available	300 m
		6XV1873-6GT20		Glass fiber-optic cable; longitudinally and laterally watertight cable for use indoors and outdoors with non-metallic rodent protection and for direct underground installation; assembled with 2 x SC plugs
		6XV1873-6GT30		100 m
	FO Robust Cable GP 50/125/900 (OM 2)	6XV1873-5RH10	Available	200 m
		6XV1873-5RH20		300 m
		6XV1873-5RH30		Glass fiber-optic cable; longitudinally and laterally watertight cable for use indoors and outdoors with non-metallic rodent protection and for direct underground installation; assembled with 2 x LC duplex plugs
		6XV1873-5RN10		1,0 m
		6XV1873-5RN30		2,0 m
		6XV1873-5RN50		3,0 m
		6XV1873-5RT10		10 m
		6XV1873-5RT15		30 m
				50 m
				100 m
				150 m

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Order data accessories – fiber-optic cables

	Product name	Order number	Start of delivery	Description
Preassembled fiber-optic cables				
	FO Ground Cable 50/125/1400 (OM 2) – assembled with 4 x ST/BFOC plugs	6XV1873-3GT10	Available	Glass fiber-optic cable; longitudinally and laterally watertight cable for use indoors and outdoors with non-metallic rodent protection and for direct underground installation; assembled with 4 x ST/BFOC plugs 100 m
		6XV1873-3GT20		200 m
		6XV1873-3GT30		300 m
	FO Ground Cable 50/125/1400 (OM 2) – assembled with 2 x SC plugs	6XV1873-6GT10	Available	Glass fiber-optic cable; longitudinally and laterally watertight cable for use indoors and outdoors with non-metallic rodent protection and for direct underground installation; assembled with 2 x SC plugs 100 m
		6XV1873-6GT20		200 m
		6XV1873-6GT30		300 m

SCALANCE XC-200

Order data accessories – plug-in connectors

	Product name	Order number	Start of delivery	Description
Fiber-optic plug-in connector for self-assembly				
	FC SC plug	6GK1900-1LB00-0AC0	Available	SC plug-in connector; for connecting glass fiber-optic cables, suitable for quick assembly with the FastConnect FO System; (1 pack = 10 duplex plugs + cleaning cloths)
	FC SC coupler	6GK1900-1LP00-0AB0	Available	SC duplex coupler for FastConnect assembly (1 pack = 5 units)
	FC ST/BFOC plug	6GK1900-1GB00-0AC0	Available	ST/BFOC plug-in connector; for connecting glass fiber-optic cables, suitable for quick assembly with the FastConnect FO System; (1 pack = 20 units + cleaning cloths)
	FC ST/BFOC coupler	6GK1900-1GP00-0AB0	Available	ST/BFOC coupler for FastConnect assembly (1 pack = 5 units)
	Multimode FO ST/BFOC plug set	6GK1901-0DA20-0AA0	Available	ST/BFOC connector set for connecting glass fiber-optic cables; 20 units
	Multimode FO SC duplex plug set	6GK1901-0LB10-2AA0	Available	SC duplex plug set for connecting glass fiber-optic cables; 10 units
	FC FO termination kit (ST/BFOC)	6GK1900-1GL00-0AA0	Available	Assembly case for on-site assembly of FC ST/BFOC plugs with FC fiber-optic cables; comprising stripping tool, Kevlar scissors, fiber breaking tool, and microscope
	Termination Kit ST/BFOC Plug	6GK1900-0HL00-0AA0	Available	Assembly case for on-site assembly of ST/BFOC plugs; consisting of stripping tool, buffer stripping tool, Kevlar scissors, fiber breaking tool, and microscope

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Order data accessories – plug-in connectors

	Product name	Order number	Start of delivery	Description
Fiber-optic plug-in connector for self-assembly				
	FC FO LC plug	6GK1900-1RB00-2AB0	Available	FC FO LC PLUG for on-site assembly with FC fiber-optic cables (62.5/200/230) Package: 10 units, duplex plugs cleaning cloths
	Multimode FO LC duplex plug	6GK1901-0RB10-2AB0	Available	LC plug set, for connection to Ethernet/PROFINET devices with integrated optic multimode interface (SCALANCE XR-300EEC, XR-300, X308-2M, SCALANCE XC-200)
	Single-mode FO LC duplex plug	6GK1901-0SB10-2AB0	Available	LC plug set, for connection to Ethernet/PROFINET devices with integrated optic single-mode interface (SCALANCE XR-300EEC, XR-300, X308-2M, SCALANCE XC-200)
	FC FO termination kit (LC)	6GK1900-0RL00-0AA0	Available	FC FO termination kit, FC LC PLUG assembly case for on-site assembly of FC LC plugs with FC fiber-optic cables

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Order data accessories

	Product name	Order number	Start of delivery	Description
Further accessories				
	FC RJ 45 port lock	6GK1901-1BB50-0AA0	Available	Mechanical locking of unused RJ45 ports on network components and terminal devices. Use on devices with and without securing collar
	Serial console cable	6GK5980-3BB00-0AA5	Available	Preassembled, serial cable with RJ11 and RS232 plug, length: 3 m
	IE FC stripping tool	6GK1901-1GA00	Available	Preset insulation stripping tool for fast stripping of Industrial Ethernet FC cables
	IE FC blade cassettes	6GK1901-1GB00	Available	Cassette with spare blades; use for IE FC outlet RJ45, ELS TP40, 5 units; 12 mm
		6GK1901-1GB01		Cassette with spare blades; use for IE FC RJ45 plugs and IE FC RJ45 modular outlet, 5 units; 5 mm
	IE FC outlet RJ45	6GK1901-1FC00-0AA0	Available	For connecting Industrial Ethernet FC cables and TP cords; graduated prices as of 10 and 50 units
	IE FC RJ45 modular outlet	6GK1901-1BE00-0AA0	Available	Without replaceable insert
		6GK1901-1BE00-0AA1		With insert 2FE; replaceable insert for 2 x 100 Mbit/s interface
	IE FC RJ45 modular outlet insert 2FE	6GK1901-1BK00-0AA1	Available	Replaceable insert for FC Modular Outlet Base; 2 x RJ45 for 2 x 100 Mbit/s interfaces; 1 pack = 4 units
	Energy cable 2 x 0.75	6XV1812-8A	Available	Energy cable (2-wire), sold by the meter, unassembled; connection of signaling contact and 24 V power supply to SCALANCE X and W; max. length 1000 m, minimum order 20 m
	Robust energy cable 4 x 1.0	6XV1801-2A	Available	Robust energy cable (4-wire), unassembled, sold by the meter; max. length 1000 m; minimum order 20 m