





		Type and number of ports							Max. distance		Article no. *)	
		Gigabit Ethernet				Fast Ethernet						
		10/100/1000 Mbit/s		1000 Mbit/s		100 Mbit/s						
		Electrical		Optical		Optical						
Module type		Twisted-pair	Multimode	Singlemode	POF/PCF	Multimode	Singlemode					
Media modules for SCALANCE XR-300												
	MM992-2CUC	2x RJ45						100 m	6GK5992-2GA00-8AA0			
	MM992-2CUC ²⁾	2x RJ45						100 m	6GK5992-2GA00-8FA0			
	MM992-2CU ¹⁾	2x RJ45						100 m	6GK5992-2SA00-8AA0			
	MM992-2VD ⁴⁾	2x RJ45						5)	6GK5992-2VA00-8AA0			
	MM992-2M12 ²⁾	2x M12 (X-coded)						100 m	6GK5992-2HA00-0AA0			
	MM991-2					2x ST/BFOC		5 km	6GK5991-2AB00-8AA0			
	MM991-2LD						2x ST/BFOC	26 km	6GK5991-2AC00-8AA0			
	MM991-2FM					2x ST/BFOC		5 km	6GK5991-2AB01-8AA0			
	MM991-2					2x SC		5 km	6GK5991-2AD00-8AA0			
	MM991-2LD						2x SC	26 km	6GK5991-2AF00-8AA0			
	MM991-2LH+						2x SC	70 km	6GK5991-2AE00-8AA0			
	MM991-2P				2 x SC RJ			50/100 m	6GK5991-2AH00-8AA0			
	MM992-2		2x SC					750 m	6GK5992-2AL00-8AA0			
	MM992-2 ²⁾		2x SC					750 m	6GK5992-2AL00-8FA0			
	MM992-2LD			2x SC				10 km	6GK5992-2AM00-8AA0			
	MM992-2LH			2x SC				40 km	6GK5992-2AN00-8AA0			
	MM992-2LH+			2x SC				70 km	6GK5992-2AP00-8AA0			
	MM992-2ELH			2x SC				120 km	6GK5992-2AQ00-8AA0			
	MM992-2SFP ³⁾		2x LC	2x LC		2x LC	2x LC	5)	6GK5992-2AS00-8AA0			
Port Extender and media modules for SCALANCE XM-400												
	PE408	8x RJ45							6GK5408-0GA00-8AP2			
	PE400-8SFP ⁶⁾		8x LC	8x LC		8x LC	8x LC		6GK5400-8AS00-8AP2			
	PE408PoE	8x RJ45 (PoE)							6GK5408-0PA00-8AP2			
	STP991-1 ⁷⁾					1x ST/BFOC		5 km	6GK5991-1AB00-8AA0			
	STP991-1LD ⁷⁾						1x ST/BFOC	26 km	6GK5991-1AC00-8AA0			
	SCP992-1 ²⁾		1x SC					750 m	6GK5992-1AJ00-8AA0			
	SCP992-1LD ⁷⁾			1x SC				10 km	6GK5992-1AK00-8AA0			
1) Without sleeve 2) Coated PCBs (conformal coating) 3) For max. 2x SFP modules 4) The two-wire transmission function is also possible via cables not compliant with Ethernet (variable distance) 5) Dependent on the cable quality, transmission speed varies with distance 6) For max. 8x SFP modules 7) Can only be inserted in XM408-4C												

		Type and number of ports							Max. distance		Article no. *)	
		10 Gigabit Ethernet		Gigabit Ethernet			Fast Ethernet					
		10 Gbit/s		10/100/1000 Mbit/s			100 Mbit/s					
		Optical		Electrical	Optical		Optical					
Module type		Multimode	Singlemode	Twisted-pair	Multimode	Singlemode	Multimode	Singlemode				
Media modules for SCALANCE XR-500												
	MM992-4CUC			4x RJ45					100 m	6GK5992-4GA00-8AA0		
	MM992-4CU ¹⁾			4x RJ45					100 m	6GK5992-4SA00-8AA0		
	MM992-4PoE C			4x RJ45					100 m	6GK5992-4RA00-8AA0		
	MM992-4PoE ¹⁾			4x RJ45					100 m	6GK5992-4QA00-8AA0		
	MM991-4						4x ST/BFOC		5 km	6GK5991-4AB00-8AA0		
	MM991-4LD							4x ST/BFOC	26 km	6GK5991-4AC00-8AA0		
	MM992-4				4x SC				750 m	6GK5992-4AL00-8AA0		
	MM992-4LD					4x SC			10 km	6GK5992-4AM00-8AA0		
	MM992-4SFP ²⁾				4x LC	4x LC	4x LC	4x LC		6GK5992-4AS00-8AA0		
SFP modules for SCALANCE X-300, XM-400 and XR-500												
	SFP991-1 ³⁾						1x LC		5 km	6GK5991-1AD00-8AA0		
	SFP991-1LD ³⁾							1x LC	26 km	6GK5991-1AF00-8AA0		
	SFP991-1LH+ ³⁾							1x LC	70 km	6GK5991-1AE00-8AA0		
	SFP991-1ELH200 ³⁾							1x LC	200 km	6GK5991-1AE30-8AA0		
	SFP992-1 ⁴⁾				1x LC				750 m	6GK5992-1AL00-8AA0		
	SFP992-1LD ⁴⁾					1x LC			10 km	6GK5992-1AM00-8AA0		
	SFP992-1LH ⁴⁾					1x LC			40 km	6GK5992-1AN00-8AA0		
	SFP992-1LH+ ⁴⁾					1x LC			70 km	6GK5992-1AP00-8AA0		
	SFP992-1ELH ⁴⁾					1x LC			120 km	6GK5992-1AQ00-8AA0		
	SFP+-Module ⁵⁾											
	SFP993-1	1x LC								300 m	6GK5993-1AT00-8AA0	
SFP993-1LD		1x LC							10 km	6GK5993-1AU00-8AA0		
SFP993-1LH		1x LC							40 km	6GK5993-1AV00-8AA0		
IE Connecting Cable SFP+/SFP+ 10 Gigabit Ethernet ⁵⁾												
	1 meter								1 m	6GK5980-3CB00-0AA1		
	2 meter								2 m	6GK5980-3CB00-0AA2		
	7 meter								7 m	6GK5980-3CB00-0AA7		
Accessories												
	C-PLUG	Conformal Coating								6GK1900-0AB00		
										6GK1900-0AQ00		
	PS9230 PoE	Power Supply for SCALANCE XM-400						85 ... 264 V AC		6GK5923-0PS00-3AA2		
	PS924 PoE	Power Supply for SCALANCE XM-400						24 V DC		6GK5924-0PS00-1AA2		
	PS598-1	Power Supply for SCALANCE XR528/XR552						85 ... 264 V AC		6GK5598-1AA00-3AA0		
1) Without sleeve 2) For max. 4x SFP modules 3) Can only be inserted in SFP slot 4) Can only be inserted in SFP/SFP+ slot 5) Can only be inserted in SFP+ slots												

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Siemens AG
Process Industries and Drives
Postfach 48 48
90026 Nürnberg
Germany

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SIEMENS



SCALANCE X

Industrial Ethernet Switches

The right switch for every requirement
Ordering overview – Edition 10/2016


























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Industrial Ethernet Switches for networks with a future

Switches are active network components that support the structuring of an industrial communication network into electrical or optical line, star and ring structures. They specifically distribute data to the defined addressees thus structuring the data traffic. Data throughput and network performance are increased considerably. The graded SIMATIC X portfolio from Siemens has the right Switch for every demand placed on an industrial communications network.








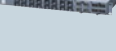

SIMATIC NET Selection Tool:

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		Network components (SCALANCE X)					CSM (Compact Switch Module)	
Operations Level	X-500 managed	  						
		XR-500						
Control Level	X-400 managed	  						
		XM-400 PE-400						
Control Level	X-300 managed	  						
		X-300 X-300EEC XR-300/XR-300EEC						
Field Level	X-200 managed	    						
		XB-200 XC-200 XP-200/ XP-200PoE EEC XF-200 X-200RNA						
	X-200IRT managed	   						
		X-200IRT X-200IRT PRO XF-200IRT X-200P IRT						
Field Level	X-100 unmanaged	 						
		XC-100 X-100 Media converter						
Field Level	X-000 unmanaged	 						
		X-000 XB-000						
		  					LOGO! CSM CSM 1277 CSM 377	

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© Siemens AG 2016 Ordering overview for switches								
	Product	Comments		electr. ports	opt. ports	Article no. *)		
	Compact Switch Modules – More connections to SIMATIC							
	LOGO! CSM 12/24	for LOGO!		4		6GK7177-1MA20-0AA0		
	LOGO! CSM 230	for LOGO!		4		6GK7177-1FA10-0AA0		
	CSM 1277	for S7-1200		4		6GK7277-1AA10-0AA0		
	CSM 377	for S7-300/ET 200M		4		6GK7377-1AA00-0AA0		
	SCALANCE X-000 – Simple, space-saving, suitable for industry							
	X005	Extended temperature range		5		6GK5005-0BA10-1AA3		
	X005TS	Extended temperature range according to EN 50155		5		6GK5005-0BA00-1CA3		
	XB005		24 V AC/DC	5		6GK5005-0BA00-1AB2		
	XB008			8		6GK5008-0BA00-1AB2		
	XB004-1	Multimode, max. 5 km	24 V AC/DC	4	1x SC	6GK5004-1BD00-1AB2		
	XB004-1LD	Long distance, singlemode, max. 26 km	24 V AC/DC	4	1x SC	6GK5004-1BF00-1AB2		
	XB005G		Gigabit-capable	5		6GK5005-0GA00-1AB2		
	XB008G			8		6GK5008-0GA00-1AB2		
	XB004-1G	Multimode, max. 750 m		4	1x SC	6GK5004-1GL00-1AB2		
	XB004-1LDG	Long distance, singlemode, max. 10 km		4	1x SC	6GK5004-1GM00-1AB2		
	XB004-2	Multimode, max. 5 km		4	2x SC	6GK5004-2BD00-1AB2		
SCALANCE X-100 – Basic version with full industrial compatibility								
	XC106-2	Multimode, max. 5 km	4	2x ST/BFOC	6GK5106-2BB00-2AC2			
			6	2x SC	6GK5106-2BD00-2AC2			
	XC108		8		6GK5108-0BA00-2AC2			
	XC116		16		6GK5116-0BA00-2AC2			
	XC124		24		6GK5124-0BA00-2AC2			
	X108PoE	Power-over-Ethernet (for 2 Ports)	8		6GK5108-0PA00-2AA3			
	SCALANCE X-100 media converters – Convert according to your requirements							
	X101-1	RJ45 → ST/BFOC (Multimode, max. 5 km)		1	1x ST/BFOC	6GK5101-1BB00-2AA3		
	X101-1LD	RJ45 → ST/BFOC (Long distance, singlemode, max. 26 km)		1	1x ST/BFOC	6GK5101-1BC00-2AA3		
	SCALANCE XB-200 – For PROFINET and EtherNet/IP ⁵⁾							
	XB208	PROFINET		8		6GK5208-0BA00-2AB2		
		EtherNet/IP		8		6GK5208-0BA00-2TB2		
	XB205-3	PROFINET		5	3x SC	6GK5205-3BD00-2AB2		
		EtherNet/IP		5		6GK5205-3BD00-2TB2		
	XB205-3	PROFINET		5	3x ST/BFOC	6GK5205-3BB00-2AB2		
		EtherNet/IP		5		6GK5205-3BB00-2TB2		
	XB205-3LD	PROFINET	Long distance, max. 26 km	5	3x SC	6GK5205-3BF00-2AB2		
		EtherNet/IP		5		6GK5205-3BF00-2TB2		
	XB216	PROFINET		16		6GK5216-0BA00-2AB2		
		EtherNet/IP		16		6GK5216-0BA00-2TB2		
	XB213-3	PROFINET		13	3x SC	6GK5213-3BD00-2AB2		
		EtherNet/IP		13		6GK5213-3BD00-2TB2		
	XB213-3	PROFINET		13	3x ST/BFOC	6GK5213-3BB00-2AB2		
		EtherNet/IP		13		6GK5213-3BB00-2TB2		
	XB213-3LD	PROFINET	Long distance, max. 26 km	13	3x SC	6GK5213-3BF00-2AB2		
		EtherNet/IP		13		6GK5213-3BF00-2TB2		
		SCALANCE XC-200 – User-friendly all-rounders ⁵⁾						
		XC206-2	Multimode, max. 5 km		6	2x ST/BFOC	6GK5206-2BB00-2AC2	
						2x SC	6GK5206-2BD00-2AC2	
XC206-2SFP		SFP with 100 Mbit/s or 1 Gbit/s pluggable		6	2x LC	6GK5206-2BS00-2AC2		
XC208				8		6GK5208-0BA00-2AC2		
XC216				16		6GK5216-0BA00-2AC2		
XC224			24		6GK5224-0BA00-2AC2			
	SCALANCE XP-200 – For use outside of control cabinets ⁵⁾							
	XP208	PROFINET		8x M12		6GK5208-0HA00-2AS6		
		EtherNet/IP				6GK5208-0HA00-2TS6		
	XP216	PROFINET		16x M12		6GK5216-0HA00-2AS6		
		EtherNet/IP				6GK5216-0HA00-2TS6		
	XP208EEC	PROFINET		8x M12		6GK5208-0HA00-2ES6		
	XP208PoE EEC	PROFINET	Power-over-Ethernet	8x M12		6GK5208-0UA00-5ES6		
XP216EEC	PROFINET		16x M12		6GK5216-0HA00-2ES6			
XP216PoE EEC	PROFINET	Power-over-Ethernet	16x M12		6GK5216-0UA00-5ES6			
	SCALANCE X-200RNA – No more frame losses							
	X204RNA	Redundant network access for PRP networks (IEC 62439-3)		4		6GK5204-0BA00-2KB2		
		Redundant network access for HSR networks (IEC 62439-3)		4		6GK5204-0BA00-2MB2		
	X204RNA EEC	For extreme environmental conditions for PRP networks (IEC 62439-3)		4 ²⁾	2x LC ²⁾	6GK5204-0BS00-3LA3		
		For extreme environmental conditions for HSR networks (IEC 62439-3)		4 ²⁾		6GK5204-0BS00-2NA3		
		With configurable PRP or HSR functions		4 ²⁾		6GK5204-0BS00-3PA3		
	SCALANCE X-200IRT – Operating in hard real-time							
	X200-4P IRT	POF/PCF		PROFINET with IRT real-time property	4x SC RJ	6GK5200-4AH00-2BA3		
X201-3P IRT	POF/PCF		1		3x SC RJ	6GK5201-3BH00-2BA3		
X202-2IRT			2		2x ST/BFOC	6GK5202-2BB00-2BA3		
X202-2P IRT	POF/PCF		2		2x SC RJ	6GK5202-2BH00-2BA3		
X202-2P IRT PRO	POF/PCF, IP65		2x Push Pull		2x SC RJ Push Pull	6GK5202-2JR00-2BA6		
X201-3P IRT PRO	POF/PCF, IP65		1x Push Pull		3x SC RJ Push Pull	6GK5201-3JR00-2BA6		
X204IRT			4			6GK5204-0BA00-2BA3		
X204IRT PRO	IP65		4x Push Pull			6GK5204-0JA00-2BA6		
	SCALANCE XF-200 / SCALANCE XF-200IRT – Powerful and flat							
	XF204			Design of the ET 200S	4		6GK5204-0BA00-2AF2	
	XF204-2	Multimode, max. 5 km			4	2x ST/BFOC	6GK5204-2BC00-2AF2	
	XF206-1	Multimode, max. 5 km			6	1x ST/BFOC	6GK5206-1BC00-2AF2	
	XF208				8		6GK5208-0BA00-2AF2	
	XF204IRT	PROFINET with IRT real-time property			4		6GK5204-0BA00-2BF2	
	SCALANCE X-300 – Compact high-performance switches							
	X307-3	Multimode, max. 750 m		Gigabit-capable	7	3x SC	6GK5307-3BL10-2AA3	
	X307-3LD	Long-distance, singlemode, max. 10 km			7	3x SC	6GK5307-3BM10-2AA3	
	X308-2	Multimode, max. 750 m			8	2x SC	6GK5308-2FL10-2AA3	
	X308-2LD	Long-distance, singlemode, max. 10 km			8	2x SC	6GK5308-2FM10-2AA3	
	X308-2LH	Long-haul, singlemode, max. 40 km			8	2x SC	6GK5308-2FN10-2AA3	
	X308-2LH+	Long-haul plus, singlemode, max. 70 km			8	2x SC	6GK5308-2FP10-2AA3	
	X308-2M	Partially modular			8 ¹⁾	4 ¹⁾	6GK5308-2GG00-2AA2	
	X308-2M PoE	Partially modular, Power-over-Ethernet (for 4 Ports)			8 ¹⁾	4 ¹⁾	6GK5308-2QG00-2AA2	
	X308-2M TS	Partially modular, extended temperature range			8 ¹⁾	4 ¹⁾	6GK5308-2GG00-2CA2	
	X310				10		6GK5310-0FA10-2AA3	
	X320-1FE	Fast Ethernet, multimode, max. 5 km			20	1x SC	6GK5320-1BD00-2AA3	
	X320-3LD FE	Fast Ethernet; 1x multimode, max. 5 km; 2x Long-distance, singlemode, max. 26 km			20	3x SC	6GK5320-3BF00-2AA3	
	SCALANCE XR-300 – Flexible and modular in 19" design							
	XR324-12M TS	24 V DC, extended temperature range		Fully modular, Gigabit-capable	24 ¹⁾	24 ¹⁾	6GK5324-0GG00-1CR2	
		24 V DC			24 ¹⁾	24 ¹⁾	6GK5324-0GG00-1AR2 ⁴⁾	
	XR324-12M	110-240 V AC					6GK5324-0GG00-3AR2 ⁴⁾	
	XR324-4M PoE	24 V DC, Power-over-Ethernet		Partly modular Gigabit-capable	24 ¹⁾	8 ¹⁾	6GK5324-4QG00-1AR2 ⁴⁾	
110-240 V AC, Power-over-Ethernet						6GK5324-4QG00-3AR2 ⁴⁾		
XR324-4M PoE TS	24 V DC, Power-over-Ethernet, extended temperature range			24 ¹⁾	8 ¹⁾	6GK5324-4QG00-1CR2 ⁴⁾		
	SCALANCE XR-300EEC – Modular for harsh environments							
	XR324-4M EEC	1 x 24 V DC		Partly modular, Gigabit-capable, for extreme environmental conditions	24 ¹⁾	8 ¹⁾	6GK5324-4GG00-1ER2 ⁴⁾	
		2 x 24 V DC					6GK5324-4GG00-2ER2 ⁴⁾	
		1 x 100-240 AC/60-250 V DC					6GK5324-4GG00-3ER2 ⁴⁾	
		2 x 100-240 AC/60-250 V DC					6GK5324-4GG00-4ER2	
	SCALANCE X-400 – Powerful plant networking ⁵⁾							
	KEY-PLUG XM-400	for SCALANCE XM-400, enables Layer 3 functions					6GK5904-0PA00	
	XM408-4C	Layer 3 (with KEY-PLUG XM-400)		Modular, Gigabit-capable	24 ²⁾³⁾	4x ST/BFOC or SC ²⁾³⁾ 16x LC ²⁾³⁾	6GK5408-4GP00-2AM2	
		Layer 3 integrated					6GK5408-4GQ00-2AM2	
	XM408-8C	Layer 3 (with KEY-PLUG XM-400)				24x LC ²⁾³⁾	6GK5408-8GS00-2AM2	
		Layer 3 integrated					6GK5408-8GR00-2AM2	
	XM416-4C	Layer 3 (with KEY-PLUG XM-400)				12x LC ²⁾³⁾	6GK5416-4GS00-2AM2	
	Layer 3 integrated		6GK5416-4GR00-2AM2					
	SCALANCE X-500 – Structuring highly performant plant networks and connecting office IT ⁵⁾							
	KEY-PLUG X-500	for SCALANCE X-500, enables Layer 3 functions					6GK5905-0PA00	
	XR524-8C	24 V DC		Modular, Gigabit-capable	24 ²⁾	8 ²⁾	6GK5524-8GS00-2AR2	
		110-240 V AC					6GK5524-8GS00-3AR2	
	XR524-8C	2x 110-240 V AC					6GK5524-8GS00-4AR2	
		24 V DC					6GK5524-8GR00-2AR2	
	XR524-8C	Layer 3 integrated					6GK5524-8GR00-3AR2	
		2x 110-240 V AC					6GK5524-8GR00-4AR2	
	XR526-8C	24 V DC, redundant		Modular, 2x 10 Gbit/s	24 ²⁾	10 ²⁾	6GK5526-8GS00-2AR2	
230 V AC		6GK5526-8GS00-3AR2						
XR526-8C	230 V AC, redundant		6GK5526-8GS00-4AR2					
	24 V DC, redundant		6GK5526-8GR00-2AR2					
XR526-8C	230 V AC		6GK5526-8GR00-3AR2					
	230 V AC, redundant		6GK5526-8GR00-4AR2					
XR528-6M	Layer 3 (with KEY-PLUG X-500)		Fully modular, 4x 10 Gbit/s	24 ¹⁾	28 ¹⁾	6GK5528-0AA00-2AR2 ⁴⁾		
	Layer 3 integrated					6GK5528-0AR00-2AR2 ⁴⁾		
XR552-12M	Layer 3 (with KEY-PLUG X-500)			48 ¹⁾	52 ¹⁾	6GK5552-0AA00-2AR2 ⁴⁾		
	Layer 3 integrated					6GK5552-0AR00-2AR2 ⁴⁾		
*) Current ordering data can be found on the Internet at: www.siemens.com/industrymall Conditions of sale and delivery can be found at: www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf								
				1)	Dependent on the media module used			
				2)	Dependent on the comboport used			
				3)	Dependent on the port extender used			
				4)	Cable outlet at front; variants with cable outlet at rear are also available			
				5)	Alternate use of PROFINET or EtherNet/IP diagnostics			