MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

## 6GK5416-4GS00-2AM2

**SCALANCE MANAGED NETWORK SWITCH**

Used with the applicable PLC System configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official manufacturer documentation

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| Type and number of ports | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 10 Gigabit Ethernet | | | Gigabit Ethernet | | | Fast Ethernet | | | |
| | 10 Gbit/s | | | 10/100/1000 Mbit/s | | 1000 Mbit/s | 100 Mbit/s | | | |
| | Optical | | | Electrical | | Optical | Optical | | | |
| | Multimode | Singlemode | Twisted Pair | 1 x RJ45 | 2 x RJ45 | | Multimode | Singlemode | Max. distance | Article no.[1] |
| **Media modules for SCALANCE X-300** | | | | | | | | | | |
| MM992-2CUC | | | 2 x RJ45 | | | | | | 100 m | 6GK5992-2GA00-8AA0 |
| MM992-2CUC[4] | | | 2 x RJ45 | | | | | | 100 m | 6GK5992-2GA00-8FA0 |
| MM992-2CU[7] | | | 2 x RJ45 | | | | | | 100 m | 6GK5992-2SA00-8AA0 |
| MM992-2VD[8] | | | 2 x RJ45 | | | | | | [6] | 6GK5992-2VA00-8AA0 |
| MM992-2M12[9] | | | 2 x M12 (X-coded) | | | | | | 1000[9] m | 6GK5992-2HA00-0AA0 |
| MM991-2 | | | | | | 2 x STBFOC | | | 5 km | 6GK5991-2AB00-8AA0 |
| MM991-2LD | | | | | | | 2 x STBFOC | | 26 km | 6GK5991-2AC00-8AA0 |
| MM991-2PM | | | | | | 2 x STBFOC | | | 5 km | 6GK5991-2AB01-8AA0 |
| MM991-2 | | | | | | 2 x SC | | | 5 km | 6GK5991-2AD00-8AA0 |
| MM991-2LD | | | | | | | 2 x SC | | 26 km | 6GK5991-2AF00-8AA0 |
| MM991-2LH+ | | | | | | | 2 x SC | | 70 km | 6GK5991-2AE00-8AA0 |
| MM991-2P | | | | | | 2 x SC RJ | | | 50/100 m | 6GK5991-2AH00-8AA0 |
| MM992-2 | | | | 2 x SC | | | | | 750 m | 6GK5992-2AL00-8AA0 |
| MM992-2[7] | | | | 2 x SC | | | | | 750 m | 6GK5992-2AL00-8FA0 |
| MM992-2LD | | | | | 2 x SC | | | | 10 km | 6GK5992-2AM00-8AA0 |
| MM992-2LH | | | | | 2 x SC | | | | 40 km | 6GK5992-2AN00-8AA0 |
| MM992-2LH+ | | | | | 2 x SC | | | | 70 km | 6GK5992-2AP00-8AA0 |
| MM992-2ELH | | | | | 2 x SC | | | | 120 km | 6GK5992-2AQ00-8AA0 |
| MM992-2SFP[10] | | | | 2 x LC | 2 x LC | 2 x LC | 2 x LC | | [6] | 6GK5992-2AS00-8AA0 |
| MM992-2SFP[10] | | | | 2 x LC | 2 x LC | 2 x LC | 2 x LC | | [6] | 6GK5992-2AS00-8FA0 |
| **Port Extender and media modules for SCALANCE XM-400** | | | | | | | | | | |
| PE408 | | | 8 x RJ45 | | | | | | | 6GK5408-0GA00-8AF2 |
| PE400-8SFP[11] | | | | 8 x LC | 8 x LC | 8 x LC | 8 x LC | | [6] | 6GK5400-8AS00-8AF2 |
| PE408PoE | | | 8 x RJ45 (PoE) | | | | | | | 6GK5408-0PA00-8AF2 |
| SFP991-1[7] | | | | | | 1 x STBFOC | | | 5 km | 6GK5991-1AB00-8AA0 |
| SFP991-1LD[8] | | | | | | | 1 x STBFOC | | 26 km | 6GK5991-1AC00-8AA0 |
| SCF992-1[7] | | | | 1 x SC | | | | | 750 m | 6GK5992-1AJ00-8AA0 |
| SCF992-1LD[8] | | | | | 1 x SC | | | | 10 km | 6GK5992-1AK00-8AA0 |
| **Media modules for SCALANCE XR-500** | | | | | | | | | | |
| MM992-4CUC | | | 4 x RJ45 | | | | | | 100 m | 6GK5992-4GA00-8AA0 |
| MM992-4CU[7] | | | 4 x RJ45 | | | | | | 100 m | 6GK5992-4SA00-8AA0 |
| MM991-4 | | | | | | 4 x STBFOC | | | 5 km | 6GK5991-4AB00-8AA0 |
| MM991-4LD | | | | | | | 4 x STBFOC | | 26 km | 6GK5991-4AC00-8AA0 |
| MM992-4 | | | | 4 x SC | | | | | 750 m | 6GK5992-4AL00-8AA0 |
| MM992-4LD | | | | | 4 x SC | | | | 10 km | 6GK5992-4AM00-8AA0 |
| MM992-4SFP[10] | | | | 4 x LC | 4 x LC | 4 x LC | 4 x LC | | [6] | 6GK5992-4AS00-8AA0 |
| **SFF modules for SCALANCE X-200, X-300, XM-400 and XR-500** | | | | | | | | | | |
| SFP991-1[3] [5] [12] | | | | | | 1 x LC | | | 5 km | 6GK5991-1AD00-8AA0 |
| SFP991-1A[13] | | | | | | 1 x LC | | | 5 km | 6GK5991-1AD00-8GA0 |
| SFP991-1LD[3] [12] [5] | | | | | | | 1 x LC | | 26 km | 6GK5991-1AF00-8AA0 |
| SFP991-1LD A[13] | | | | | | | 1 x LC | | 26 km | 6GK5991-1AF00-8GA0 |
| SFP991-1LH+[14] | | | | | | | 1 x LC | | 70 km | 6GK5991-1AE00-8AA0 |
| SFP991-1ELH200+[5] | | | | | | | 1 x LC | | 200 km | 6GK5991-1AE30-8AA0 |
| SFP992-1[7] [5] | | | | 1 x LC | | | | | 750 m | 6GK5992-1AL00-8AA0 |
| SFP992-1+ | | | | 1 x LC | | | | | 2 km | 6GK5992-1AG00-8AA0 |
| SFP992-1LD[3] [5] | | | | | 1 x LC | | | | 10 km | 6GK5992-1AM00-8AA0 |
| SFP992-1LD+[5] | | | | | 1 x LC | | | | 10 km | 6GK5992-1AM30-8AA0 |
| SFP992-1BXMT[14] | | | | 1 x LC | | | | | 500 m | 6GK5992-1AL00-8TA0 |
| SFP992-1BXMR[14] | | | | 1 x LC | | | | | 500 m | 6GK5992-1AL00-8RA0 |
| SFP992-1BX10E[3] | | | | | 1 x LC | | | | 10 km | 6GK5992-1AM00-8RA0 |
| SFP992-1BX10E[3] | | | | | 1 x LC | | | | 10 km | 6GK5992-1AM00-8TA0 |
| SFP992-1LH | | | | | 1 x LC | | | | 40 km | 6GK5992-1AN00-8AA0 |
| SFP992-1LH+ | | | | | 1 x LC | | | | 70 km | 6GK5992-1AP00-8AA0 |
| SFP992-1ELH | | | | | 1 x LC | | | | 120 km | 6GK5992-1AQ00-8AA0 |
| SFP+ Module[15] | | | | | | | | | | |
| SFP993-1 | 1 x LC | | | | | | | | 300 m | 6GK5993-1AT00-8AA0 |
| SFP993-1LD | | 1 x LC | | | | | | | 10 km | 6GK5993-1AU00-8AA0 |
| SFP993-1LH | | 1 x LC | | | | | | | 40 km | 6GK5993-1AV00-8AA0 |
| E Cable SFP+/SFP+ | 2 x LC pre-assembled with 2 x SFP+ plug | | | | | | | | 1 m | 6GK5980-3CB00-0AA1 |
| | | | | | | | | | 2 m | 6GK5980-3CB00-0AA2 |
| | | | | | | | | | 7 m | 6GK5980-3CB00-0AA7 |

| Product | Comments | Electr. Ports | Optical ports | Article no.[1] |
|---|---|---|---|---|
| **Bus adapter for SCALANCE XF204-2BA (Process industry)** | | | | |
| BA 2 x RJ45 HA | Extended temperature range, Conformal Coating | 2 x RJ45 | | 6DL1193-6AR00-0AA0 |
| BA 2 x FC HA | | 2 x FastConnect | | 6DL1193-6AF00-0AA0 |
| BA 2 x RJ45/ID HA[2] | | 2 x RJ45 | | 6GK5991-2VA00-8AA2 |
| BA 2 x LC HA | | | 2 x LC | 6DL1193-6AG00-0AA0 |
| BA LC/RJ45 HA | | 1 x RJ45 | 1 x LC | 6DL1193-6AG20-0AA0 |
| BA LC/FC HA | | 1 x FastConnect | 1 x LC | 6DL1193-6AG40-0AA0 |
| **Bus adapter for SCALANCE XF204-2BA (Discrete industry)** | | | | |
| BA 2 x RJ45 | | 2 x RJ45 | | 6ES7193-6AR00-0AA0 |
| BA 2 x FC | | 2 x FastConnect | | 6ES7193-6AF00-0AA0 |
| BA 2 x SCRJ | | | 2 x SCRJ | 6ES7193-6AP00-0AA0 |
| BA SCRJ/RJ45 | | 1 x RJ45 | 1 x SCRJ | 6ES7193-6AP20-0AA0 |
| BA SCRJ/FC | | 1 x FastConnect | 1 x SCRJ | 6ES7193-6AP40-0AA0 |
| BA 2 x LC | | | 2 x LC | 6ES7193-6AG00-0AA0 |
| BA LC/RJ45 | | 1 x RJ45 | 1 x LC | 6ES7193-6AG20-0AA0 |
| BA LC/FC | | 1 x FastConnect | 1 x LC | 6ES7193-6AG40-0AA0 |
| BA 2 x M12 | | 2 x M12 | | 6ES7193-6AM00-0AA0 |
| **Power Supplies for SCALANCE X** | | | | |
| Power Supplies | PS9230PoE (100-240 V AC) for SCALANCE XM-400 | | | 6GK5923-0PS00-3AA2 |
| | PS9924PoE (24 V DC) for SCALANCE XM-400 | | | 6GK5924-0PS00-1AA2 |
| | PS89230PoE (100-240 V AC) for SCALANCE XR-300PoE WG | | | 6GK5923-0PS00-2RA3 |
| | PS598-1 (100-240 V AC) for SCALANCE XR-100, XR-300, XR-500 | | | 6GK5598-1AA00-3AA0 |
| **Optional storage medium for SCALANCE X** | | | | |
| C-PLUG | | | | 6GK1900-0AB00 |
| | Depending on FW compatibility | | | 6GK1900-0AB10 |
| | Conformal Coating | | | 6GK1900-0AQ00 |

1) Current ordering data can be found on the Internet at: **www.siemens.com/industrymall**
2) Without retaining collar
3) Available with coated PCBs (Conformal Coating) available
4) For max. 2 x SFP modules
5) Communication via 2, 4- or 8-wire cables
6) Depending on the kind of cable and cable quality, transmission speed varies with distance
7) Can only be inserted in SFP slot
8) Can only be inserted in SCALANCE XM408-4C
9) For max. 4 x SFP modules
10) Can only be inserted in SFP slot
11) Can only be inserted in SFP/SFP+ slot
12) Can only be inserted in SFP+ slot
13) Type "A" coated
14) Delivery unit with 10 pieces available

Conditions of sale and delivery can be found at: **www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf**

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SCALANCE X

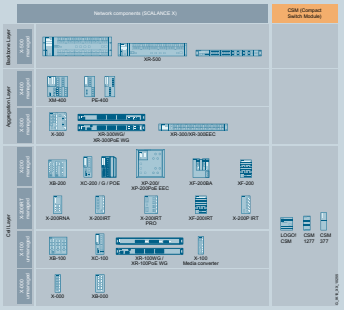
# Managed Industrial Ethernet Switches

**The right switch for every requirement**
**Ordering overview – Edition 01/2021**

**siemens.com/switches**

**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 SCALANCE X portfolio from Siemens has the right Switch for every demand placed on an industrial communications network.




The TIA Selection Tool can be found under:
**siemens.com/tst**

The ordering overview „Unmanaged Industrial Ethernet Switches" can be found under:
**siemens.com/unmanaged-switches**

More information on the SIMATIC NET cabling technology can be found under:
**siemens.com/fastconnect**



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**Ordering overview for "Managed Industrial Ethernet Switches"**

| Product | Comments | | Electr. ports | Optical ports | Article no.[1] |
|---|---|---|---|---|---|
| **SCALANCE XC-200 – User-friendly all-rounders[18]** | | | | | |
| XC206-2 | Multimode, max. 5 km | | 6 | 2 × ST/ BFOC | 6GK5206-2BB00-2AC2 |
| | | | | 2 × SC | 6GK5206-2BD00-2AC2 |
| XC206-2SFP | SFPs with 100 Mbit/s or 1 Gbit/s pluggable | | 6 | 2 × LC | 6GK5206-2BS00-2AC2 |
| XC206-2SFP G | PROFINET EtherNet/IP | Full Gigabit, 1 Gbit/s-SFPs and active SFPs (100 Mbit/s) pluggable | 6 | 2 × LC | 6GK5206-2GS00-2AC2<br>6GK5206-2GS00-2TC2 |
| XC206-2G PoE | 24 V DC<br>54 V DC | 6 × PoE-Ports | 6 | 2 × LC | 6GK5206-2RS00-2AC2<br>6GK5206-2RS00-5AC2 |
| XC206-2SFP EEC | Conformal Coating, SFPs with 100 Mbit/s or 1 Gbit/s pluggable | | 6 | 2 × LC | 6GK5206-2BS00-2FC2 |
| XC206-2SFP G EEC | Conformal Coating, Full Gigabit, 1 Gbit/s-SFPs and active SFPs (100 Mbit/s) pluggable | | 6 | 2 × LC | 6GK5206-2GS00-2FC2 |
| XC206-2G PoE EEC | 54 V DC | 6 × PoE-Ports | 6 | 2 × LC | 6GK5206-2RS00-5FC2 |
| XC208 | | | 8 | | 6GK5208-0BA00-2AC2 |
| XC208G | PROFINET EtherNet/IP | Full Gigabit | 8 | | 6GK5208-0GA00-2AC2<br>6GK5208-0GA00-2TC2 |
| XC208G PoE | 24 V DC<br>54 V DC | 6 × PoE-Ports | 8 | | 6GK5208-0RA00-2AC2<br>6GK5208-0RA00-5AC2 |
| XC208EEC | Conformal Coating | | 8 | | 6GK5208-0BA00-2FC2 |
| XC208G EEC | Full Gigabit, Conformal Coating | | 8 | | 6GK5208-0GA00-2FC2 |
| XC216 | | | 16 | | 6GK5216-0BA00-2AC2 |
| XC216EEC | Conformal Coating | | 16 | | 6GK5216-0BA00-2FC2 |
| XC216-4C | | 1 Gbit/s-SFPs and active SFPs (100 Mbit/s) pluggable | 16 | 4 × LC | 6GK5216-4BS00-2AC2 |
| XC216-4C G | PROFINET EtherNet/IP | Full Gigabit, Combo-Ports, 1 Gbit/s-SFPs and active SFPs (100 Mbit/s) pluggable | 16<br>16 | 4 × LC<br>4 × LC | 6GK5216-4GS00-2AC2<br>6GK5216-4GS00-2TC2 |
| XC216-4C G EEC | | Conformal Coating, Full Gigabit, Combo-Ports, 1 Gbit/s-SFPs and active SFPs (100 Mbit/s) pluggable | 16 | 4 × LC | 6GK5216-4GS00-2FC2 |
| XC224-4C G EEC | PROFINET EtherNet/IP | | 24 | 4 × LC | 6GK5224-4GS00-2FC2 |
| XC224-4C G | | Full Gigabit, Combo-Ports, 1 Gbit/s-SFPs and active SFPs (100 Mbit/s) pluggable | 24 | 4 × LC | 6GK5224-4GS00-2AC2 |
| XC224 | | | 24 | 4 × LC | 6GK5224-4GS00-2TC2 |
| | | | 24 | | 6GK5224-0BA00-2AC2 |
| **SCALANCE XF-200 – Powerful and flat** | | | | | |
| XF204-2BA[19] | For configuration with 2 × Bus adapter (4 ports in total) | Conformal Coating | 4[21] | 4[21] | 6GK5204-2AA00-2GF2 |
| XF204BA | For configuration with 2 × Bus adapter | | 4 | | 6GK5204-0BA00-2GF2 |
| XF204-2BA DNA | For configuration with 2 × Bus adapter (4 ports in total), "Y-switch" functionality | | 4[21] | 4[21] | 6GK5204-2AA00-2YF2 |
| XF204BA DNA | For configuration with 2 × Bus adapter, "Y-switch" functionality | | 4 | | 6GK5204-0BA00-2YF2 |
| XF204 | | | 4 | | 6GK5204-0BA00-2AF2 |
| XF204-2 | Multimode, max. 5 km | | 4 | 2 × ST/ BFOC | 6GK5204-2BC00-2AF2 |
| XF206-1 | Multimode, max. 5 km | | 6 | 1 × ST/ BFOC | 6GK5206-1BC00-2AF2 |
| XF208 | | | 8 | | 6GK5208-0BA00-2AF2 |
| **SCALANCE XP-200 – For use outside of control cabinets[18]** | | | | | |
| XP208 | PROFINET | IP65, M12 | 8 | | 6GK5208-0HA00-2AS6 |
| | EtherNet/IP | | | | 6GK5208-0HA00-2TS6 |
| XP216 | PROFINET | 4 × 1 Gbit/s | 16 | | 6GK5216-0HA00-2AS6 |
| | EtherNet/IP | | | | 6GK5216-0HA00-2TS6 |
| XP208EEC | PROFINET | | 8 | | 6GK5208-0HA00-2ES6 |
| XP208PoE EEC | PROFINET | Power-over-Ethernet | IP65, M12, Conformal Coating | 8 | 6GK5208-0UA00-5ES6 |
| XP216EEC | PROFINET | 4 × 1 Gbit/s | | 16 | 6GK5216-0HA00-2ES6 |
| XP216PoE EEC | PROFINET | Power-over-Ethernet, 4 × 1 Gbit/s | | 16 | 6GK5216-0UA00-5ES6 |
| **SCALANCE XB-200 – More functions in less space[18]** | | | | | |
| XB205-3 | PROFINET | Multimode, max. 5 km | 5 | 3 × SC | 6GK5205-3BD00-2AB2 |
| | EtherNet/IP | | 5 | | 6GK5205-3BD00-2TB2 |
| XB205-3 | PROFINET | | 5 | 3 × ST/ BFOC | 6GK5205-3BB00-2AB2 |
| | EtherNet/IP | | 5 | | 6GK5205-3BB00-2TB2 |
| XB205-3LD | PROFINET | Long-distance, singlemode, max. 26 km | 5 | 3 × SC | 6GK5205-3BF00-2AB2 |
| | EtherNet/IP | | 5 | | 6GK5205-3BF00-2TB2 |
| XB208 | PROFINET | | 8 | | 6GK5208-0BA00-2AB2 |
| | EtherNet/IP | | 8 | | 6GK5208-0BA00-2TB2 |
| XB216 | PROFINET | | 16 | | 6GK5216-0BA00-2AB2 |
| | EtherNet/IP | | 16 | | 6GK5216-0BA00-2TB2 |
| XB213-3 | PROFINET | Multimode, max. 5 km | 13 | 3 × SC | 6GK5213-3BD00-2AB2 |
| | EtherNet/IP | | 13 | | 6GK5213-3BD00-2TB2 |
| XB213-3 | PROFINET | | 13 | 3 × ST/ BFOC | 6GK5213-3BB00-2AB2 |
| | EtherNet/IP | | 13 | | 6GK5213-3BB00-2TB2 |
| XB213-3LD | PROFINET | Long-distance, singlemode, max. 26 km | 13 | 3 × SC | 6GK5213-3BF00-2AB2 |
| | EtherNet/IP | | 13 | | 6GK5213-3BF00-2TB2 |
| **SCALANCE X-200IRT – Operating in hard real-time** | | | | | |
| X200-4P IRT | POF/PCF | PROFINET with IRT real-time property | | 4 × SC RJ | 6GK5200-4AH00-2BA3 |
| X201-3P IRT | POF/PCF | | 1 | 3 × SC RJ | 6GK5201-3BH00-2BA3 |
| X202-2IRT | | | 2 | 2 × ST/ BFOC | 6GK5202-2BB00-2BA3 |
| X202-2P IRT | POF/PCF | | 2 | 2 × SC RJ | 6GK5202-2BH00-2BA3 |
| X202-2P IRT PRO | POF/PCF, IP65, Push Pull | | 2 | 2 × SC RJ | 6GK5202-2JR00-2BA6 |
| X201-3P IRT PRO | POF/PCF, IP65, Push Pull | | 1 | 3 × SC RJ | 6GK5201-3JR00-2BA6 |
| X204IRT | | | 4 | | 6GK5204-0BA00-2BA3 |
| X204IRT PRO | IP65, Push Pull | | 4 | | 6GK5204-0JA00-2BA6 |
| XF204IRT | | | 4 | | 6GK5204-0BA00-2BF2 |
| XF204-2BA IRT | For configuration with 2 × Bus adapter (4 ports in total) | | | | 6GK5204-2AA00-2BD2 |
| XF201-3P IRT | Delivered with 2 × Bus adapter | | 1 | 3 × SCRJ | 6GK5201-3BH00-2BD2 |
| XF202-2P IRT | Delivered with 2 × Bus adapter | | 2 | 2 × SCRJ | 6GK5202-2BH00-2BD2 |
| **SCALANCE XR-300WG – 19" Work Group Switch[18] with low installation depth** | | | | | |
| XR324WG | 24 V DC | | 24 | | 6GK5324-0BA00-2AR3 |
| | 100-240 V AC | | | | 6GK5324-0BA00-3AR3 |
| XR326-2C PoE WG | 100-240 V AC, 24 × PoE-Ports | Combo-Ports, Full Gigabit, PoE, 2 × 10 Gbit/s | 26 | 2[16] | 6GK5326-2QS00-3AR3 |
| | | Combo-Ports, Full Gigabit, PoE, 2 × 10 Gbit/s, w/o cULus | | | 6GK5326-2QS00-3RR3 |
| XR328-4C WG[11] | 24 V DC | Combo-Ports, 4 × 1 Gbit/s | 28 | 4[16] | 6GK5328-4FS00-2AR3 |
| | 100-240 V AC | | 28 | 4[16] | 6GK5328-4FS00-3AR3 |
| | 24 V DC | Combo-Ports, 4 × 1 Gbit/s, w/o cULus | 28 | 4[16] | 6GK5328-4FS00-2RR3 |
| | 100-240 V AC | | 28 | 4[16] | 6GK5328-4FS00-3RR3 |
| | 24 V DC | Full Gigabit, Combo-Ports | 28 | 4[16] | 6GK5328-4SS00-2AR3 |
| | 100-240 V AC | | 28 | 4[16] | 6GK5328-4SS00-3AR3 |
| **SCALANCE XR-300 – Flexible and modular in 19" design** | | | | | |
| XR324-12M TS | 24 V DC, railway approval | Fully modular, Full Gigabit | 24[15] | 24[15] | 6GK5324-0GG10-1CR2[18] |
| XR324-12M | 24 V DC | | 24[15] | 24[15] | 6GK5324-0GG10-1AR2[18] |
| | 110-240 V AC | | | | 6GK5324-0GG10-3AR2[18] |
| XR324-4M PoE | 24 V DC, Power-over-Ethernet | Partly modular, Full Gigabit | 24[15] | 8[15] | 6GK5324-4QG10-1AR2[18] |
| | 110-240 V AC, Power-over-Ethernet | | | | 6GK5324-4QG10-3AR2[18] |
| XR324-4M PoE TS | 24 V DC, Power-over-Ethernet, railway approval | | 24[15] | 8[15] | 6GK5324-4QG10-1CR2[18] |
| **SCALANCE XR-300EEC – Modular for harsh environments** | | | | | |
| XR324-4M EEC | 1 × 24 V DC | Partly modular, Full Gigabit, extended temperature range | 24[15] | 8[15] | 6GK5324-4GG10-1ER2[18] |
| | 2 × 24 V DC | | | | 6GK5324-4GG10-2ER2[18] |
| | 1 × 100-240 AC / 60-250 V DC | | | | 6GK5324-4GG10-3ER2[18] |
| | 2 × 100-240 AC / 60-250 V DC | | | | 6GK5324-4GG10-4ER2[18] |
| **SCALANCE X-400 – Powerful plant networking[20]** | | | | | |
| KEY-PLUG XM-400 | For SCALANCE XM-400, enables Layer 3 functions | | | | 6GK5904-0PA00 |
| XM408-4C | Layer 2 | Modular, Full Gigabit | 24[17][18] | 4 × ST/ BFOC or SC[14][17]<br>16 × LC[14][17] | 6GK5408-4GP00-2AM2 |
| | Layer 3 integrated | | | | 6GK5408-4GQ00-2AM2 |
| XM408-8C | Layer 2 | | | 24 × LC[14][17] | 6GK5408-8GS00-2AM2 |
| | Layer 3 integrated | | | | 6GK5408-8GR00-2AM2 |
| XM416-4C | Layer 2 | | | 12 × LC[14][17] | 6GK5416-4GS00-2AM2 |
| | Layer 3 integrated | | | | 6GK5416-4GR00-2AM2 |
| **SCALANCE X-500 – Structuring highly performant plant networks and connecting corporate IT[18]** | | | | | |
| KEY-PLUG X-500 | For SCALANCE X-500, enables Layer 3 functions | | | | 6GK5905-0PA00 |
| XR524-8C | Layer 2 | 24 V DC | 1 height unit (HU), Full Gigabit | 24[15] | 8[15] | 6GK5524-8GS00-2AR2 |
| XR524-8C | | 110-240 V AC | | | | 6GK5524-8GS00-3AR2 |
| XR524-8C | | 2 × 110-240 V AC | | | | 6GK5524-8GS00-4AR2 |
| XR524-8C | Layer 3 integrated | 24 V DC | | | | 6GK5524-8GR00-2AR2 |
| XR524-8C | | 110-240 V AC | | | | 6GK5524-8GR00-3AR2 |
| XR524-8C | | 2 × 110-240 V AC | | | | 6GK5524-8GR00-4AR2 |
| XR526-8C | Layer 2 | 24 V DC, redundant | 1 HU, Full Gigabit 2 × 10 Gbit/s | 24[15] | 10[15] | 6GK5526-8GS00-2AR2 |
| XR526-8C | | 230 V AC | | | | 6GK5526-8GS00-3AR2 |
| XR526-8C | | 230 V AC, redundant | | | | 6GK5526-8GS00-4AR2 |
| XR526-8C | Layer 3 integrated | 24 V DC, redundant | | | | 6GK5526-8GR00-2AR2 |
| XR526-8C | | 230 V AC | | | | 6GK5526-8GR00-3AR2 |
| XR526-8C | | 230 V AC, redundant | | | | 6GK5526-8GR00-4AR2 |
| XR528-6M | Layer 2 | | 2 HU, Fully modular, Full Gigabit, 4 × 10 Gbit/s | 24[15] | 28[15] | 6GK5528-0AA00-2AR2[18] |
| XR528-6M | Layer 3 integrated | | | | | 6GK5528-0AR00-2AR2[18] |
| XR552-12M | Layer 2 | | 3 HU, Fully modular, Full Gigabit, 4 × 10 Gbit/s | 48[15] | 52[15] | 6GK5552-0AA00-2AR2[18] |
| XR552-12M | Layer 3 integrated | | | | | 6GK5552-0AR00-2AR2[18] |

1) 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**

15) Dependent on the media module used
16) Dependent on the combopart used
17) Dependent on the port extender used
18) Cable outlet at front; variants with cable outlet at rear are also available
19) Alternate use of PROFINET or EtherNet/IP diagnostics
20) Dependent on the bus adapter used
21) 1 Gbit/s-SFPs and active SFPs (100 Mbit/s) pluggable