

***** spare part ***** SCALANCE X307-2EEC; managed IE switch, compact; 5x 10/100 Mbit/s RJ45, 2x 10/100/1000 Mbit/s RJ45, 2x 100 Mbit/s LC FO ports; LED diagnostics; error signaling contact; select/set pushbutton; PROFINET IO device; network management; integrated redundancy manager; office features (RSTP, VLAN, IGMP,...); C-plug in scope of supply; 24 V DC power supply unit.

product type designation	SCALANCE X307-2EEC
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	7
• for network components or terminal equipment	5
number of 10/100 Mbit/s RJ45 ports / integrated	2
number of 10/100/1000 Mbit/s RJ45 ports / integrated	2
number of 100 Mbit/s LC ports	2
• for multimode	
interfaces / other	
number of electrical connections	1
• for signaling contact	1
• for power supply	
type of electrical connection	2-pole terminal block
• for signaling contact	4-pole terminal block
• for power supply	
design of the removable storage	Yes
• C-PLUG	
signal inputs/outputs	
operating voltage / of the signaling contacts	24 V
• at DC / rated value	
operational current / of the signaling contacts	0.1 A
• at DC / maximum	
supply voltage, current consumption, power loss	
type of voltage supply / redundant power supply unit	No
type of voltage / 1 / of the supply voltage	DC
• supply voltage / 1 / rated value	24 V
• power loss [W] / 1 / rated value	12 W
• supply voltage / 1 / rated value	19.2 ... 57.6 V
• consumed current / 1 / maximum	0.75 A
• type of electrical connection / 1 / for power supply	4-pole terminal block
• product component / 1 / fusing at power supply input	Yes
ambient conditions	
ambient temperature	-40 ... +70 °C
• during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• note	A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
relative humidity	95 %
• at 25 °C / without condensation / during operation / maximum	
protection class IP	IP30
design, dimensions and weights	
design	compact
width	216 mm
height	143 mm
depth	110 mm

net weight	1.8 kg
product feature / conformal coating	No
fastening method	Wall mounting is possible only with an additional wall bracket; 19" mounting only with installation of two X-300EEC switches in pairs using a mounting plate
<ul style="list-style-type: none"> • 19-inch installation • 35 mm top hat DIN rail mounting • wall mounting • S7-300 rail mounting • S7-1500 rail mounting 	Yes Yes Yes Yes No
product features, product functions, product components / general	
cascading in the case of a redundant ring / at reconfiguration time of <~0.3~s	100
cascading in cases of star topology	any (depending only on signal propagation time)
product functions / management, configuration, engineering	
product function	
<ul style="list-style-type: none"> • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • with IRT / PROFINET IO switch • PROFINET IO diagnosis 	Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes
PROFINET conformity class	B
product function / switch-managed	Yes
protocol / is supported	
<ul style="list-style-type: none"> • Telnet • HTTP • HTTPS • TFTP • FTP • BOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
identification & maintenance function	
<ul style="list-style-type: none"> • I&M0 - device-specific information • I&M1 - higher level designation/location designation 	Yes Yes
product functions / diagnostics	
product function	
<ul style="list-style-type: none"> • port diagnostics • statistics Packet Size • statistics packet type • error statistics • SysLog 	Yes Yes Yes Yes Yes
product functions / VLAN	
product function	
<ul style="list-style-type: none"> • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic 	Yes No No Yes
number of VLANs / maximum	255
number of VLANs - dynamic / maximum	255
protocol / is supported / GVRP	Yes
product functions / DHCP	

product function	
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	Yes
• DHCP Option 67	Yes
product functions / redundancy	
product function	
• ring redundancy	Yes
• High Speed Redundancy Protocol (HRP)	Yes
• high speed redundancy protocol (HRP) with redundancy manager	Yes
• high speed redundancy protocol (HRP) with standby redundancy	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
• media redundancy protocol (MRP) with redundancy manager	Yes
• redundancy procedure STP	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure MSTP	Yes
• Parallel Redundancy Protocol (PRP)/operation in the PRP-network	Yes
• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)	No
• passive listening	Yes
protocol / is supported	
• STP/RSTP	Yes
• STP	Yes
• RSTP	Yes
• MSTP	Yes
• RSTP big network support	Yes
• LACP	Yes
product functions / security	
product function	
• ACL - MAC-based	Yes
• ACL - port/MAC-based	Yes
• IEEE 802.1x (radius)	Yes
• broadcast/multicast/unicast limiter	Yes
• broadcast blocking	Yes
protocol / is supported	
• SSH	Yes
product functions / time	
product function	
• SICLOCK support	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes
• IEEE 1588 profile default	Yes
standards, specifications, approvals	
standard	
• for FM	FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
• for safety / from CSA and UL	UL 508
• for emitted interference	EN 61000-6-4:2007 (Class A)
• for interference immunity	EN 61000-6-2:2005
MTBF	29.9 a
reference code	
• according to IEC 81346-2	KF
• according to IEC 81346-2:2019	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standard	
• for EMC	IEC 61850, IEEE 1613

standards, specifications, approvals / hazardous environments

standard / for hazardous zone

- from CSA and UL

EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4

ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, UL 1604 and 2279-15, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4

standards, specifications, approvals / other

certificate of suitability

- C-Tick
- KC approval
- railway application in accordance with EN 50155
- railway application in accordance with EN 50124-1
- IEC 61850-3
- IEEE 1613

EN 61000-6-2:2005, EN 61000-6-4:2007

Yes

Yes

No

No

Yes

Yes

standards, specifications, approvals / marine classification

Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS)
- French marine classification society (BV)
- Det Norske Veritas (DNV)
- Germanische Lloyd (GL)
- DNV GL
- Lloyds Register of Shipping (LRS)
- Nippon Kaiji Kyokai (NK)
- Polski Rejestr Statkow (PRS)
- Royal Institution of Naval Architects (RINA)

Yes

Yes

No

No

Yes

Yes

Yes

Yes

Yes

further information / internet-Links

Internet-Link

- to web page: selection aid TIA Selection Tool
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAX-Download-Manager
- to website: Industry Online Support

<http://www.siemens.com/tia-selection-tool><http://www.siemens.com/simatic-net><https://mall.industry.siemens.com><http://www.siemens.com/industry/infocenter><http://automation.siemens.com/bilddb><http://www.siemens.com/cax><https://support.industry.siemens.com>**security information**

security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

last modified:

9/16/2022 