

***** spare part ***** SCALANCE X302-7EEC; managed IE switch, compact; 2x 10/100/1000 Mbit/s RJ45, 7x 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 delivery, 24 V DC redundant power supply unit.

product type designation	SCALANCE X302-7EEC
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
• for network components or terminal equipment	2
number of 10/100/1000 Mbit/s RJ45 ports / integrated	2
number of 100 Mbit/s LC ports	
• for multimode	7
interfaces / other	
number of electrical connections	
• for signaling contact	2
• for power supply	2
type of electrical connection	
• for signaling contact	2-pole terminal block
• for power supply	2 x 4-pole terminal block
design of the removable storage	
• C-PLUG	Yes
signal inputs/outputs	
operating voltage / of the signaling contacts	
• at DC / rated value	24 V
operational current / of the signaling contacts	
• at DC / maximum	0.1 A
supply voltage, current consumption, power loss	
product component / connection for redundant voltage supply	Yes
type of voltage supply / redundant power supply unit	Yes
type of voltage / 1 / of the supply voltage	DC
• supply voltage / 1 / rated value	24 V
• power loss [W] / 1 / rated value	17 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	2 x 4-pole terminal block
• product component / 1 / fusing at power supply input	Yes
ambient conditions	
ambient temperature	
• 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	
• at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP30
design, dimensions and weights	
design	compact
width	216 mm
height	143 mm

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, Divison 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	19.6 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 standard	Yes
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- 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
No
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

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