

Product-type designation

SCALANCE X302-7EEC



SCALANCE X302-7EEC;
 MANAGED IE SWITCH, COMPACT;
 2 X 10/100/1000MBIT/S RJ45;
 7 X 100MBIT/S LC FO PORTS;
 24 V DC POWER SUPPLY;
 LED-DIAGNOSTICS;
 FAULT SIGNAL CONTACT;
 SELECT/SET-BUTTON;
 PROFINET-IO DEVICE;
 NETWORK- MANAGEMENT;
 INTEGRATED REDUNDANCY MANAGER;
 OFFICE FEATURES (RSTP, VLAN, IGMP,..);
 C-PLUG IN SCOPE OF SUPPLY

Transmission rate

Transfer rate / 1	10 Mbit/s
Transfer rate / 2	100 Mbit/s
Transfer rate / 3	1000 Mbit/s

Interfaces

Number of electrical/optical connections / for network components or terminal equipment / maximum	9
Number of electrical connections	
• for network components and terminal equipment	2
• for signaling contact	1
• for power supply	1
• for redundant power supply	1
Design of electrical connection	
• for network components and terminal equipment	RJ45 port
• for signaling contact	2-pole terminal block
• for power supply	4-pole terminal block
Number of optical interfaces / for optical waveguide	
• at 100 Mbit/s	7
Design of optical interface / for optical waveguide	
• at 100 Mbit/s	LC port (multimode up to 5 km)

Connectable optical power relative to 1 mW	
• of the transmitter output	-19 ... -14 dB
• of the receiver input / maximum	-14 dB
Optical sensitivity relative to 1 mW / of the receiver input / minimum	-32 dB
Attenuation / of fiber-optic cable transmission link / minimum necessary	0 dB
Range / at the optical interface / depending on the optical fiber used	0 ... 5 km
design of the removable storage / C-PLUG	Yes
Signal-Inputs/outputs	
Operating voltage / of signaling contacts / at DC / rated value	24 V
Operating current / of signaling contacts / at DC / maximum	0.1 A
Supply voltage, current consumption, power loss	
Type of supply voltage / redundant power supply unit	No
Type of / supply voltage	DC
Supply voltage	
• external	24 V
• external	19.2 ... 57.6 V
Type / 2 / of supply voltage	DC
Supply voltage / for DC	24 V
• rated value	19.2 ... 57.6 V
Product component / fusing at power supply input	Yes
Type of fusing / at input for supply voltage	T 4 A / 125 V
Consumed current / maximum	0.75 A
Power loss	
• at 24 V / for DC	17 W
Permitted ambient conditions	
Ambient temperature	
• during operating	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• Comment	A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
Relative humidity	
• at 25 °C / without condensation / during operating / maximum	95 %
Ambient condition	
• for (standard) operation mode	Conformal coating, no
Protection class IP	IP30
Design, dimensions and weight	
Design	compact
Width	216 mm

Height	143 mm
Depth	110 mm
Net weight	1.8 kg
Mounting type	
• 19-inch installation	Yes
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes
• S7-300 rail mounting	Yes
Mounting type	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

Product properties, functions, components / general

Cascading in the case of a redundant ring / at reconfiguration time of $\leq 0.3\text{ s}$	50
Cascading in cases of star structuring	Any (depending only on signal propagation time)
Product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
• Configuration with STEP 7	Yes
• RMON	Yes
• Port mirroring	Yes
• multiport mirroring	Yes
• CoS	Yes
• for IRT / PROFINET IO switch	No
• PROFINET IO diagnosis	Yes
• switch-managed	Yes
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
• IGMP (snooping/querier)	Yes
• GMRP	Yes
• DCP	Yes

• LLDP	Yes
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher level designation/location designation	Yes
Product functions / Diagnosis	
Product function	
• Port diagnostics	Yes
• Statistics Packet Size	Yes
• Statistics packet type	Yes
• Error statistics	Yes
• SysLog	Yes
Product functions / VLAN	
Product function	
• VLAN - port based	Yes
• VLAN dynamic	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
• Redundancy manager	Yes
• Standby redundancy	Yes
• High Speed Redundancy Protocol (HRP)	Yes
• Media Redundancy Protocol (MRP)	Yes
• redundancy procedure STP	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure MSTP	Yes
• Passive listening	Yes
Protocol / is supported	
• STP/RSTP	Yes
• STP	Yes
• RSTP	Yes

• RSTP big network support	Yes
• LACP	Yes
Product functions / Security	
Product function	
• 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
• MSTP	No
• IEEE 1588 profile default	Yes
Standards, specifications, approvals	
Standard	
• for EMC	IEC 61850, IEEE 1613
• from FM	FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4
• for safety / of CSA and UL	UL 508
• for hazardous area / of CSA and UL	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
• for emitted interference	EN 61000-6-4:2007 (Class A)
• for interference immunity	EN 61000-6-2:2005
Verification of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• CE mark	Yes
• C-Tick	Yes
• KC approval	Yes
• Railway application in accordance with EN 50155	No
• Railway application in accordance with EN 50124-1	No
• IEC 61850-3	Yes
Further Information / Internet Links	
Internet-Link	
• to website: Industry Mall	http://www.siemens.com/industrial-controls/mall
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Information and Download Center	http://www.siemens.com/automation/net/catalog

- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://automation.siemens.com/bilddb>
<http://www.siemens.com/cax>
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Security information

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