

Product-type designation

SCALANCE X307-3LD



SCALANCE X307-3LD,
 MANAGED PLUS IE SWITCH,
 3 X 1000MBIT/S SM SC 7 X 10/100MBIT/S RJ45 PORTS,
 LED-DIAGNOSTICS,
 FAULT SIGNAL CONTACT WITH 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	10
Number of electrical connections	
• for network components and terminal equipment	7
• for signaling contact	1
• for power supply	1
• for redundant power supply	2
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 1000 Mbit/s	3
Design of optical interface / for optical waveguide	
• at 1000 Mbit/s	SC port (singlemode up to 10 km)

Connectable optical power relative to 1 mW	
• of the transmitter output	
• minimum	-9.5 dB
• maximum	-3 dB
• of the receiver input / maximum	-3 dB
Optical sensitivity relative to 1 mW / of the receiver input / minimum	-21 dB
Attenuation / of fiber-optic cable transmission link / minimum necessary	0 dB
Range / at the optical interface / depending on the optical fiber used	0 ... 10 km
design of the removable storage / C-PLUG	Yes
Signal-Inputs/outputs	
operating voltage / of the signal contact	
• 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
• minimum	18 V
• maximum	32 V
Product component / fusing at power supply input	Yes
Type of fusing / at input for supply voltage	F 3 A / 32 V
Consumed current / maximum	0.4 A
Active power loss / at 24 V / for DC	9.6 W
Permitted ambient conditions	
Ambient temperature	
• during operating	-40 ... +60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
Relative humidity	
• at 25 °C / without condensation / during operating / maximum	95 %
Protection class IP	IP30
Design, dimensions and weight	
Design	compact
Width	120 mm
Height	125 mm
Depth	123 mm

Net weight	1.4 kg
Mounting type	
• 19-inch installation	No
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	No
Mounting type	When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted.

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 functions / management, configuration

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
• PROFINET IO diagnosis	Yes
• switch-managed	Yes
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• IGMP (snooping/querier)	Yes
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher level designation/location designation	Yes

Protocol / is supported

• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	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 - protocol-based	No
• VLAN - IP-based	No
• 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
• High Speed Redundancy Protocol (HRP)	Yes
• high speed redundancy protocol (HRP) with redundancy manager	Yes
• high speed redundancy protocol (HRP) with standby redundancy	Yes
• Media Redundancy Protocol (MRP)	Yes
• media redundancy protocol (MRP) with redundancy manager	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
• MSTP	No
• 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	No
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 hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• for safety / of CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
• for hazardous area / of CSA and UL	UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213 -M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group 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
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• Bureau Veritas (BV)	Yes

• Det Norske Veritas (DNV)	Yes
• Germanische Lloyd (GL)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (NK)	Yes
• Polski Rejestr Statkow (PRS)	No
MTBF / at 40 °C	20 a
MTBF	20 a

Further Information / Internet Links

Internet-Link	
• 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	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	http://support.automation.siemens.com

Security information

Security information	<p>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)</p>
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letzte Änderung: Sep 20, 2014