



\*\*\*\*\* spare part \*\*\*\*\* SCALANCE X306-1LD FE managed IE switch, 6x 10/100 Mbit/s RJ45 ports, 1x 100 Mbit/s SC port single-mode; LED diagnostics, error signaling contact with select/set pushbutton, PROFINET IO device, network management, integrated redundancy manager, office features (RSTP, VLAN, IGMP,...) C-plug in scope of delivery .

product type designation	SCALANCE X306-1LD FE
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections <ul style="list-style-type: none"><li>for network components or terminal equipment</li></ul>	6
number of 100 Mbit/s SC ports <ul style="list-style-type: none"><li>for single mode (LD)</li></ul>	1
interfaces / other	
number of electrical connections <ul style="list-style-type: none"><li>for signaling contact</li><li>for power supply</li></ul>	1 1
type of electrical connection <ul style="list-style-type: none"><li>for signaling contact</li><li>for power supply</li></ul>	2-pole terminal block 4-pole terminal block
design of the removable storage <ul style="list-style-type: none"><li>C-PLUG</li></ul>	Yes
signal inputs/outputs	
operating voltage / of the signaling contacts <ul style="list-style-type: none"><li>at DC / rated value</li></ul>	24 V
operational current / of the signaling contacts <ul style="list-style-type: none"><li>at DC / maximum</li></ul>	0.1 A
supply voltage, current consumption, power loss	
type of voltage supply / redundant power supply unit	No
type of voltage / 1 / of the supply voltage <ul style="list-style-type: none"><li>supply voltage / 1 / rated value</li><li>power loss [W] / 1 / rated value</li><li>supply voltage / 1 / rated value</li><li>consumed current / 1 / maximum</li><li>type of electrical connection / 1 / for power supply</li><li>product component / 1 / fusing at power supply input</li></ul>	DC 24 V 4.8 W 18 ... 32 V 0.2 A 4-pole terminal block Yes
ambient conditions	
ambient temperature <ul style="list-style-type: none"><li>during operation</li><li>during storage</li><li>during transport</li></ul>	-40 ... +60 °C -40 ... +70 °C -40 ... +70 °C
relative humidity <ul style="list-style-type: none"><li>at 25 °C / without condensation / during operation / maximum</li></ul>	95 %
protection class IP	IP30

**design, dimensions and weights**

design	compact
width	60 mm
height	125 mm
depth	123 mm
net weight	0.7 kg
fastening method	When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted.
• 19-inch installation	No
• 35 mm top hat DIN rail mounting	Yes
• wall mounting	Yes
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	No

**product features, product functions, product components / general**

cascading in the case of a redundant ring / at reconfiguration time of <1~0.3~s	100
cascading in cases of star topology	any (depending only on signal propagation time)

**product functions / management, configuration, engineering**

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
PROFINET conformity class	B
product function / switch-managed protocol / is supported	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
• IGMP (snooping/querier)	Yes
identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 - higher level designation/location designation	Yes

**product functions / diagnostics**

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
<b>product functions / DHCP</b>	
product function	
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	Yes
• DHCP Option 67	Yes
<b>product functions / redundancy</b>	
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
<b>product functions / security</b>	
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
<b>product functions / time</b>	
product function	
• SICLOCK support	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes
• IEEE 1588 profile default	No
<b>standards, specifications, approvals</b>	
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 60950-1, CSA C22.2 No. 60950-1
• for emitted interference	EN 61000-6-4:2007 (Class A)
• for interference immunity	EN 61000-6-2:2005
MTBF	40 a
reference code	
• according to IEC 81346-2	KF
• according to IEC 81346-2:2019	KFE
<b>standards, specifications, approvals / CE</b>	
certificate of suitability / CE marking	Yes

**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 KEMA 07 ATEX 0145X  
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

**standards, specifications, approvals / other**

certificate of suitability

- C-Tick
- KC approval
- railway application in accordance with EN 50155

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

Yes

Yes

No

**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**

security information

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