



SCALANCE X308-2M PoE; managed IE switch, compact; 4x 10/100/1000 Mbit/s for RJ45 ports electrical with PoE; 2x 100/1000 Mbit/s for 2-port media modules, electrical or optical; LED diagnostics, error signaling Contact with select/set button, PROFINET IO device, network management, Integrated redundancy manager, office features (RSTP, VLAN, IGMP,..) C-plug in scope of delivery

<b>Product type designation</b>	<b>SCALANCE X308-2M POE</b>
<b>Transmission rate</b>	
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
Number of ports / maximum	8
<b>Interfaces / for communication / maximum configuration for modular devices</b>	
Number of electrical ports / maximum	8
Number of electrical ports / with PoE / maximum	4
Number of optical ports / maximum	4
<b>Interfaces / for communication / integrated</b>	
Number of electrical connections	4; RJ45 with securing collar
<ul style="list-style-type: none"> <li>• for Power-over-Ethernet / for network components or terminal equipment</li> </ul>	
Number of 10/100/1000 Mbit/s RJ45 ports / Integrated	4
<ul style="list-style-type: none"> <li>• with securing collar</li> </ul>	
Number of connectable media modules	2
<ul style="list-style-type: none"> <li>• with 2 ports</li> </ul>	
<b>Interfaces / for communication / pluggable / maximum</b>	

Number of 10/100/1000 Mbit/s RJ45 ports	4
• with securing collar	4
• for VD mode / with securing collar	4
Number of 10/100/1000 Mbit/s M12-ports (X-coded)	4
number of 100 Mbit/s SC-RJ-ports / for POF FOC	4
Number of 100 Mbit/s ST(BFOC) ports	
• for multimode	4
• for single mode (LD)	4
Number of 100 Mbit/s SC ports	
• for multimode	4
• for single mode (LD)	4
• for single mode (LH+)	4
Number of 1000 Mbit/s SC ports	
• for multimode	4
• for single mode (LD)	4
• for single mode (LH)	4
• for single mode (LH+)	4
Number of 100 Mbit/s LC ports	
• for multimode	4
• for single mode (LD)	4
• for single mode (LH+)	4
• for single mode (ELH200)	4
Number of 1000 Mbit/s LC ports	
• for multimode	4
• for single mode (LD)	4
• for single mode (LH)	4
• for single mode (LH+)	4
• for single mode (ELH)	4
Number of electrical connections	
• for SFP	4; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver with media module MM992-2SFP

Interfaces / others	
Number of electrical connections	
• for signaling contact	1
• for media module	2
• for power supply	1
• for redundant voltage supply	1
Type of electrical connection	
• for signaling contact	2-pole terminal block
• for power supply	4-pole terminal block
design of the removable storage	
• C-PLUG	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
Operating 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	
Product component / Power supply for PoE	Yes
Product feature	
<ul style="list-style-type: none"> <li>Voltage supply for PoE from the internal 48 V supply</li> </ul>	Yes
Type of voltage supply / redundant power supply unit	No
Type of voltage / of the supply voltage	DC
Supply voltage	
<ul style="list-style-type: none"> <li>external</li> </ul>	24 V
<ul style="list-style-type: none"> <li>external / minimum</li> </ul>	19.2 V
<ul style="list-style-type: none"> <li>external / maximum</li> </ul>	28.8 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	F 3 A / 32 V
Consumed current / maximum	2 A
Power loss [W]	
<ul style="list-style-type: none"> <li>at DC / at 24 V</li> </ul>	17 W
Supplied active power / of PSE / with PoE	
<ul style="list-style-type: none"> <li>per port / maximum</li> </ul>	15.4 W
<ul style="list-style-type: none"> <li>total / maximum</li> </ul>	30.8 W
Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-40 ... +60 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>Note</li> </ul>	If the device is installed in the vertical position, the maximum operating temperature is reduced to 60 °C.
Relative humidity	
<ul style="list-style-type: none"> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
Protection class IP	IP20
Design, dimensions and weight	
Design	compact
Number of slots	2
Width	120 mm
Height	125 mm
Depth	124 mm

Net weight	1.15 kg
Mounting type	When using SFP plug transceivers, only horizontal mounting is permitted; when used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted
<ul style="list-style-type: none"> <li>• 19-inch installation</li> <li>• 35 mm DIN rail mounting</li> <li>• wall mounting</li> <li>• S7-300 rail mounting</li> <li>• S7-1500 rail mounting</li> </ul>	<p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p>

### Product properties, functions, components / general

Cascading in the case of a redundant ring / at reconfiguration time of <math>\sim 0.3\text{ s}</math>	100
Cascading in cases of star topology	any (depending only on signal propagation time)
Product feature	
<ul style="list-style-type: none"> <li>• Store &amp; Forward switching method</li> </ul>	Yes

### Product functions / management, configuration

Product function	
<ul style="list-style-type: none"> <li>• CLI</li> <li>• web-based management</li> <li>• MIB support</li> <li>• TRAPs via email</li> <li>• Configuration with STEP 7</li> <li>• RMON</li> <li>• Port mirroring</li> <li>• multiport mirroring</li> <li>• CoS</li> <li>• PROFINET IO diagnosis</li> <li>• switch-managed</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
Protocol / is supported	
<ul style="list-style-type: none"> <li>• Telnet</li> <li>• HTTP</li> <li>• HTTPS</li> <li>• TFTP</li> <li>• FTP</li> <li>• BOOTP</li> <li>• GMRP</li> <li>• DCP</li> <li>• LLDP</li> <li>• SNMP v1</li> <li>• SNMP v2</li> <li>• SNMP v3</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>

• IGMP (snooping/querier)	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 - 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
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
• media redundancy protocol (MRP) with redundancy manager	Yes
• redundancy procedure STP	Yes

<ul style="list-style-type: none"> <li>• redundancy procedure RSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• redundancy procedure MSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Passive listening</li> </ul>	Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>• STP/RSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• STP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• RSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• MSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• RSTP big network support</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• LACP</li> </ul>	Yes

### Product functions / Security

Product function	
<ul style="list-style-type: none"> <li>• ACL - MAC-based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• ACL - port/MAC-based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.1x (radius)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Broadcast/Multicast/Unicast Limiter</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• broadcast blocking</li> </ul>	Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>• SSH</li> </ul>	Yes

### Product functions / Time

Product function	
<ul style="list-style-type: none"> <li>• SICLOCK support</li> </ul>	Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>• NTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 1588 profile default</li> </ul>	Yes

### Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> <li>• for FM</li> </ul>	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
<ul style="list-style-type: none"> <li>• for hazardous zone</li> </ul>	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
<ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul>	UL 60950-1, CSA C22.2 No. 60950-1
<ul style="list-style-type: none"> <li>• for hazardous zone / from CSA and UL</li> </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
<ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>	EN 61000-6-4:2007 (Class A)
<ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>	EN 61000-6-2:2005

## Standards, specifications, approvals / CE

Certificate of suitability / CE marking Yes

## Standards, specifications, approvals / miscellaneous

Certificate of suitability EN 61000-6-2:2005, EN 61000-6-4:2007

- C-Tick Yes
- Railway application in accordance with EN 50155 No
- KC approval No

## Standards, specifications, approvals / ship classification

Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS) Yes
- Bureau Veritas (BV) Yes
- Det Norske Veritas (DNV) No
- Germanische Lloyd (GL) No
- DNV GL Yes
- Lloyds Register of Shipping (LRS) Yes
- Nippon Kaiji Kyokai (NK) Yes
- Polski Rejestr Statkow (PRS) Yes
- Royal Institution of Naval Architects (RINA) Yes

## Standards, specifications, approvals / product conformity

MTBF 33 y

## Accessories

## 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: Industry Mall <https://mall.industry.siemens.com>
- to website: Information and Download Center <http://www.siemens.com/industry/infocenter>
- to website: Image database <http://automation.siemens.com/bilddb>
- to website: CAx Download Manager <http://www.siemens.com/cax>
- to website: Industry Online Support <https://support.industry.siemens.com>

## Security information

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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)

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