



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

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

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 / other

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"> • at DC / Rated value 	24 V
Operating current / of the signaling contacts	
<ul style="list-style-type: none"> • at DC / maximum 	0.1 A
Supply voltage, current consumption, power loss	
Product component / Power supply for PoE	Yes
Product feature	
<ul style="list-style-type: none"> • Voltage supply for PoE from the internal 48 V supply 	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"> • external 	24 V
<ul style="list-style-type: none"> • external / minimum 	19.2 V
<ul style="list-style-type: none"> • external / maximum 	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"> • at DC / at 24 V 	17 W
Supplied active power / of PSE / with PoE	
<ul style="list-style-type: none"> • per port / maximum 	15.4 W
<ul style="list-style-type: none"> • total / maximum 	30.8 W
Ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-40 ... +60 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °C
<ul style="list-style-type: none"> • Note 	With vertical installation, the maximum operating temperature is reduced to 60 °C.
Relative humidity	
<ul style="list-style-type: none"> • at 25 °C / without condensation / during operation / maximum 	95 %
Protection class IP	IP20
Design, dimensions and weights	
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"> • 19-inch installation • 35 mm DIN rail mounting • wall mounting • S7-300 rail mounting • S7-1500 rail mounting 	<p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p>

Product features, product functions, product components / general

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

Product functions / management, configuration, engineering

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

• 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

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

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

Product functions / Security

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

Product functions / time

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

Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> • for FM 	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
<ul style="list-style-type: none"> • for hazardous zone 	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"> • for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1
<ul style="list-style-type: none"> • for hazardous zone / from 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
<ul style="list-style-type: none"> • for emitted interference 	EN 61000-6-4:2007 (Class A)

• for interference immunity	EN 61000-6-2:2005
MTBF	33 y

Standards, specifications, approvals / CE

Certificate of suitability / CE marking	Yes
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Standards, specifications, approvals / other

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 / marine 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

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

Security information

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