



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 pushbutton, PROFINET IO device, network management, Integrated redundancy manager, office features (RSTP, VLAN, IGMP,...) C-plug in scope of supply.

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
<ul style="list-style-type: none"> • with securing collar 	4
<ul style="list-style-type: none"> • for VD mode of operation / 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	4
<ul style="list-style-type: none"> • for multimode 	4
<ul style="list-style-type: none"> • for single mode (LD) 	4
number of 100 Mbit/s SC ports	4
<ul style="list-style-type: none"> • for multimode 	4
<ul style="list-style-type: none"> • for single mode (LD) 	4
<ul style="list-style-type: none"> • for single mode (LH+) 	4
number of 1000 Mbit/s SC ports	4
<ul style="list-style-type: none"> • for multimode 	4
<ul style="list-style-type: none"> • for single mode (LD) 	4
<ul style="list-style-type: none"> • for single mode (LH) 	4
<ul style="list-style-type: none"> • for single mode (LH+) 	4
number of 100 Mbit/s LC ports	4
<ul style="list-style-type: none"> • for multimode 	4
<ul style="list-style-type: none"> • for single mode (LD) 	4
<ul style="list-style-type: none"> • for single mode (LH+) 	4
<ul style="list-style-type: none"> • for single mode (ELH200) 	4
number of 1000 Mbit/s LC ports	4

<ul style="list-style-type: none"> • for multimode 	4
<ul style="list-style-type: none"> • for single mode (LD) 	4
<ul style="list-style-type: none"> • for single mode (LH) 	4
<ul style="list-style-type: none"> • for single mode (LH+) 	4
<ul style="list-style-type: none"> • for single mode (ELH) 	4
number of electrical connections	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • for signaling contact 	1
<ul style="list-style-type: none"> • for media module 	2
<ul style="list-style-type: none"> • for power supply 	1
type of electrical connection	
<ul style="list-style-type: none"> • for signaling contact 	2-pole terminal block
<ul style="list-style-type: none"> • for power supply 	4-pole terminal block
design of the removable storage	
<ul style="list-style-type: none"> • C-PLUG 	Yes

signal inputs/outputs

operating voltage / of the signaling contacts	
<ul style="list-style-type: none"> • at DC / rated value 	24 V
operational 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 / connection for redundant voltage supply	Yes
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
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
type of voltage / 1 / of the supply voltage	DC
<ul style="list-style-type: none"> • supply voltage / 1 / rated value 	24 V
<ul style="list-style-type: none"> • power loss [W] / 1 / rated value 	17 W
<ul style="list-style-type: none"> • supply voltage / 1 / rated value 	19.2 ... 28.8 V
<ul style="list-style-type: none"> • consumed current / 1 / maximum 	2 A
<ul style="list-style-type: none"> • type of electrical connection / 1 / for power supply 	4-pole terminal block
<ul style="list-style-type: none"> • product component / 1 / fusing at power supply input 	Yes

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
fastening method	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 	No
<ul style="list-style-type: none"> • 35 mm top hat DIN rail mounting 	Yes

<ul style="list-style-type: none"> • wall mounting 	Yes
<ul style="list-style-type: none"> • S7-300 rail mounting 	Yes
<ul style="list-style-type: none"> • S7-1500 rail mounting 	No
product features, product functions, product components / general	
cascading in the case of a redundant ring / at reconfiguration time of $\leq 0.3\text{s}$	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 	Yes
<ul style="list-style-type: none"> • web-based management 	Yes
<ul style="list-style-type: none"> • MIB support 	Yes
<ul style="list-style-type: none"> • TRAPs via email 	Yes
<ul style="list-style-type: none"> • configuration with STEP 7 	Yes
<ul style="list-style-type: none"> • RMON 	Yes
<ul style="list-style-type: none"> • port mirroring 	Yes
<ul style="list-style-type: none"> • multipoint mirroring 	Yes
<ul style="list-style-type: none"> • CoS 	Yes
<ul style="list-style-type: none"> • PROFINET IO diagnosis 	Yes
PROFINET conformity class	B
product function / switch-managed	Yes
protocol / is supported	
<ul style="list-style-type: none"> • Telnet 	Yes
<ul style="list-style-type: none"> • HTTP 	Yes
<ul style="list-style-type: none"> • HTTPS 	Yes
<ul style="list-style-type: none"> • TFTP 	Yes
<ul style="list-style-type: none"> • FTP 	Yes
<ul style="list-style-type: none"> • BOOTP 	Yes
<ul style="list-style-type: none"> • GMRP 	Yes
<ul style="list-style-type: none"> • DCP 	Yes
<ul style="list-style-type: none"> • LLDP 	Yes
<ul style="list-style-type: none"> • SNMP v1 	Yes
<ul style="list-style-type: none"> • SNMP v2 	Yes
<ul style="list-style-type: none"> • SNMP v3 	Yes
<ul style="list-style-type: none"> • IGMP (snooping/querier) 	Yes
identification & maintenance function	
<ul style="list-style-type: none"> • I&M0 - device-specific information 	Yes
<ul style="list-style-type: none"> • I&M1 - higher level designation/location designation 	Yes
product functions / diagnostics	
product function	
<ul style="list-style-type: none"> • port diagnostics 	Yes
<ul style="list-style-type: none"> • statistics Packet Size 	Yes
<ul style="list-style-type: none"> • statistics packet type 	Yes
<ul style="list-style-type: none"> • error statistics 	Yes
<ul style="list-style-type: none"> • SysLog 	Yes
product functions / VLAN	
product function	
<ul style="list-style-type: none"> • VLAN - port based 	Yes
<ul style="list-style-type: none"> • VLAN - protocol-based 	No
<ul style="list-style-type: none"> • VLAN - IP-based 	No
<ul style="list-style-type: none"> • VLAN dynamic 	Yes
number of VLANs / maximum	255
number of VLANs - dynamic / maximum	255
protocol / is supported / GVRP	Yes
product functions / DHCP	
product function	
<ul style="list-style-type: none"> • DHCP client 	Yes
<ul style="list-style-type: none"> • DHCP Option 82 	Yes
<ul style="list-style-type: none"> • 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
• 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
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	Yes
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 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	33 a
reference code	
• according to IEC 81346-2	KF
• according to IEC 81346-2:2019	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• 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
certificate of suitability	

<ul style="list-style-type: none"> • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking 	<p>Yes</p> <p>Ex nA IIC T4 Gc</p>
standards, specifications, approvals / other	
<p>certificate of suitability</p> <ul style="list-style-type: none"> • C-Tick • KC approval • railway application in accordance with EN 50155 	<p>EN 61000-6-2:2005, EN 61000-6-4:2007</p> <p>Yes</p> <p>No</p> <p>No</p>
standards, specifications, approvals / marine classification	
<p>Marine classification association</p> <ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • DNV GL • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA) 	<p>Yes</p> <p>Yes</p> <p>No</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>No</p>
further information / internet links	
<p>internet link</p> <ul style="list-style-type: none"> • 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 	<p>http://www.siemens.com/tia-selection-tool</p> <p>http://www.siemens.com/simatic-net</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
security information	
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last modified:

5/27/2023 