



SCALANCE X308-2M TS; managed IE switch, compact; 4x 10/100/1000 Mbit/s for RJ45 ports electrical; 2x 100/1000 Mbit/s for 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; PROFINET IO device; network management; integrated redundancy manager; Office features (RSTP, VLAN, IGMP,...); C-plug in scope of delivery extended temperature range with railway approval EN 50155;

product type designation	
product brand name	SCALANCE
product type designation	X308-2M TS
Technical Product Detail Page	https://i.siemens.com/1P6GK5308-2GG10-2CA2
transfer rate	
transfer rate	10, 100, 1000 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
• for network components or terminal equipment	4
number of 10/100/1000 Mbit/s RJ45 ports	
• with securing collar	4
interfaces / other	
number of electrical connections	
• for signaling contact	1
• for media module	2
• for power supply	1
design of the removable storage	
• C-PLUG	Yes
operating voltage / of the signaling contacts	
• at DC / rated value	24 V
operational current / of the signaling contacts	
• at DC / maximum	0.1 A
supply voltage, current consumption, power loss	
product component / connection for redundant voltage supply	Yes
type of voltage supply / redundant power supply unit	No
type of voltage / 1 / of the supply voltage	
• supply voltage / 1 / rated value	12 V
• power loss [W] / 1 / rated value	16.6 W
• supply voltage / 1 / voltage range	20 ... 30
• consumed current / 1 / maximum	0.7 A
• product component / 1 / fusing at power supply input	Yes
ambient conditions	
ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• note	Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C). If the device is installed in the vertical position, the maximum operating temperature is reduced to +50 °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
width	120 mm
height	125 mm
depth	124 mm
net weight	1.4 kg
product feature / conformal coating	Yes
fastening method	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 	No Yes Yes Yes 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 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 switch-managed 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
PROFINET conformity class	B
protocol / is supported	
<ul style="list-style-type: none"> Telnet HTTP HTTPS TFTP FTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
identification & maintenance function	
<ul style="list-style-type: none"> I&M0 - device-specific information I&M1 - higher level designation/location designation 	Yes Yes
product functions / diagnostics	
product function	
<ul style="list-style-type: none"> port diagnostics statistics Packet Size statistics packet type error statistics Syslog 	Yes Yes Yes Yes Yes

product functions / VLAN

product function	
<ul style="list-style-type: none"> • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic 	<p>Yes</p> <p>No</p> <p>No</p> <p>Yes</p>
number of VLANs / maximum	255
number of VLANs - dynamic / maximum	255

product functions / DHCP

product function	
<ul style="list-style-type: none"> • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>

product functions / redundancy

protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul style="list-style-type: none"> • media redundancy protocol (MRP) with redundancy manager • ring redundancy • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure MSTP • Parallel Redundancy Protocol (PRP)/operation in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) • passive listening 	<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>No</p> <p>Yes</p>
protocol / is supported	
<ul style="list-style-type: none"> • STP/RSTP • STP • RSTP • MSTP • RSTP big network support • LACP 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>

product functions / security

product function	
<ul style="list-style-type: none"> • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking 	<p>Yes</p> <p>Yes</p> <p>Yes</p>
protocol / is supported	
<ul style="list-style-type: none"> • SSH 	<p>Yes</p>

product functions / time

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

standards, specifications, approvals

certificate of suitability	
<ul style="list-style-type: none"> • CE marking • UKCA marking • KC approval • Regulatory Compliance Mark (RCM) 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
standard	

<ul style="list-style-type: none"> • for EMC interference emission • for immunity to EMC • for safety / from CSA and UL 	EN 61000-6-4 EN 61000-6-2 UL 60950-1, CSA C22.2 No. 60950-1
standards, specifications, approvals / hazardous environments	
certificate of suitability <ul style="list-style-type: none"> • ATEX • UKEX • IECEX • ULhazloc approval • CCC / for hazardous zone according to GB standard • FM registration 	Yes Yes Yes Yes Yes Yes
standards, specifications, approvals / other	
certificate of suitability <ul style="list-style-type: none"> • railway application in accordance with EN 50155 • railway application in accordance with EN 50121-4 • fire protection in accordance with EN 45545-2 • RoHS conformity 	Yes Yes Yes Yes
resistance to air pollution / conformity according to ANSI/ISA-71.04	Yes; G3
standards, specifications, approvals / marine classification	
Marine classification association <ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) • Royal Institution of Naval Architects (RINA) 	Yes No Yes
product functions / general	
MTBF	40 a
warranty period	5 a
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
further information / internet links	
internet link <ul style="list-style-type: none"> • to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to web page: SiePortal • to website: Image database • to website: CAX-Download-Manager • to website: Industry Online Support 	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
security information	
security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>
Approvals / Certificates	
General Product Approval	EMV



EG-Konf.

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[KC](#)

For use in hazardous locations

Test Certificates

Maritime application



IECEX



ATEX

[FM](#)

[CCC-Ex](#)

[Type Test Certificates/Test Report](#)



ABS

Maritime application

Railway



BUREAU VERITAS



DNV



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