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Data sheet   **6GK5308-2QG10-2AA2**

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	
● for Power-over-Ethernet / for network components or terminal equipment	4; RJ45 with securing collar
number of 10/100/1000 Mbit/s RJ45 ports / integrated	
● with securing collar	4
number of connectable media modules	
● with 2 ports	2
interfaces / for communication / plug-in	
number of 10/100/1000 Mbit/s RJ45 ports	4
● with securing collar	4
● 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	
● 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	

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● 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
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	
● 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
product component / power supply for PoE	Yes
product feature	
● 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	
● per port / maximum	15.4 W
● total / maximum	30.8 W
type of voltage / 1 / of the supply voltage	DC
● supply voltage / 1 / rated value	24 V
● power loss [W] / 1 / rated value	17 W
● supply voltage / 1 / rated value	19.2 ... 28.8 V
● consumed current / 1 / maximum	2 A
● type of electrical connection / 1 / for power supply	4-pole terminal block
● product component / 1 / fusing at power supply input	Yes
● fuse protection type / 1 / at input for supply voltage	F 3 A / 32 V

ambient conditions	
ambient temperature	
● during operation	-40 ... +60 °C
● during storage	-40 ... +70 °C
● during transport	-40 ... +70 °C
● note	With vertical installation, the maximum operating temperature is reduced to 60 °C.
relative humidity	
● 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
● 19-inch installation	No

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● 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 <\~0.3\~s	100
cascading in cases of star topology	any (depending only on signal propagation time)
product feature	
● Store & Forward switching method	Yes

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	Yes
protocol / is supported	
● 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

product functions / DHCP

product function	
● DHCP client	Yes
● DHCP Option 82	Yes

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● 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, 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	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	
● CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
● CCC / for hazardous zone according to GB standard / as marking	Ex nA IIC T4 Gc

standards, specifications, approvals / other

certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
● C-Tick	Yes
● KC approval	No
● railway application in accordance with EN 50155	No

standards, specifications, approvals / marine classification

Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	Yes
● French marine classification society (BV)	Yes
● Det Norske Veritas (DNV)	No
● Germanische Lloyd (GL)	No
● DNV GL	Yes
● Korean Register of Shipping (KRS)	Yes
● Lloyds Register of Shipping (LRS)	Yes
● Nippon Kaiji Kyokai (NK)	Yes
● Polski Rejestr Statkow (PRS)	No
● Royal Institution of Naval Architects (RINA)	No

further information / internet links

internet link	
● to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
● 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: Selection guide for cables and connectors	https://sie.ag/2QdlxcP
● 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	Siemens provides products and solutions with industrial security 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 security 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 security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. 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 Security RSS Feed under https://www.siemens.com/cert. (V4.6)

Approvals / Certificates

EMC	For use in hazardous locations		Declaration of Conformity
RCM	ATEX-Zone 2-Declaration IECEx	FM CCC-Ex	CE EG-Konf.

Declaration of Conformity		Test Certificates	Marine / Shipping

EAC UKCA [Manufacturer Declaration](#) [Type Test Certificates/Test Report](#) ABS BUREAU VERITAS

Marine / Shipping				

Lloyd's Register LRS [NK / Nippon Kaiji Kyokai](#) RINA DNV-GL KR KOREAN REGISTER

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