SIEMENS

Data sheet

6GK5308-2GG10-2CA2



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	SCALANCE X308-2M TS
Transfer rate	
Transfer rate	10 Mbit/s, 100 Mbit/s, 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 /	
Integrated	
 with securing collar 	4
Number of connectable media modules	
• with 2 ports	2
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	Yes
• C-PLUG	Tes
Signal inputs/outputs	
Operating voltage / of the signaling contacts	
 at DC / Rated value 	24 V
Operating current / of the signaling contacts	
● at DC / maximum	0.1 A
Supply voltage, current consumption, power loss	
Type of voltage supply / redundant power supply unit	No
Type of voltage / of the supply voltage	DC
Supply voltage	
• external	12 V
• external / minimum	20 V
• external / maximum	30 V
Supply voltage / at DC	24 V
rated value	20 30 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	0.7 A
Power loss [W]	
• at DC / at 24 V	16.6 W
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
• Note	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	
 at 25 °C / without condensation / during 	95 %
operation / maximum	
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
Mounting type	When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted.
• 19-inch installation	No
 35 mm 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	100
reconfiguration time of <\~0.3\~s	
Cascading in cases of star topology	any (depending only on signal propagation time)

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	В
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	
Product function DHCP client	Yes
Product function DHCP client DHCP Option 82 	Yes
Product function DHCP client	
Product function DHCP client DHCP Option 82 	Yes
Product function DHCP client DHCP Option 82 DHCP Option 66 DHCP Option 67 Product functions / redundancy	Yes Yes
Product function DHCP client DHCP Option 82 DHCP Option 66 DHCP Option 67 Product functions / redundancy Product function	Yes Yes Yes
Product function DHCP client DHCP Option 82 DHCP Option 66 DHCP Option 67 Product functions / redundancy Ring redundancy	Yes Yes Yes
Product function DHCP client DHCP Option 82 DHCP Option 66 DHCP Option 67 Product functions / redundancy Product function	Yes Yes Yes Yes
Product function DHCP client DHCP Option 82 DHCP Option 66 DHCP Option 67 Product functions / redundancy Ring redundancy	Yes Yes Yes
Product function DHCP client DHCP Option 82 DHCP Option 66 DHCP Option 67 Product functions / redundancy Ring redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with	Yes Yes Yes Yes
Product function • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 Product functions / redundancy Product function • Ring redundancy • High Speed Redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with	Yes Yes Yes Yes Yes Yes
Product function • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 Product functions / redundancy Product function • Ring redundancy • High Speed Redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy	Yes Yes Yes Yes Yes Yes
 Product function DHCP client DHCP Option 82 DHCP Option 66 DHCP Option 67 Product functions / redundancy Product function Ring redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy Protocol / is supported / Media Redundancy Protocol (MRP)	Yes Yes Yes Yes Yes Yes
 Product function DHCP client DHCP Option 82 DHCP Option 66 DHCP Option 67 Product functions / redundancy Product function Ring redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy Protocol / is supported / Media Redundancy Protocol (MRP) Product function media redundancy protocol (MRP) with 	Yes Yes Yes Yes Yes Yes Yes

• redundency precedure MCTD	Yes
redundancy procedure MSTP	Yes
 Parallel Redundancy Protocol (PRP)/operation in the PRP-network 	
Parallel Redundancy Protocol	No
(PRP)/Redundant Network Access (RNA)	
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 hazardous zone 	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
 for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1
 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
 for emitted interference 	EN 61000-6-4
• for interference immunity	EN 61000-6-2
MTBF	40 y

Standards, specifications, approvals / CE	
Certificate of suitability / CE marking	Yes
Standards, specifications, approvals / other	
Certificate of suitability	EN 61000-6-2, EN 61000-6-4
• C-Tick	Yes
 Railway application in accordance with EN 	Yes
50155	
 Railway application in accordance with EN 	Yes
50121-4	
 Fire protection in accordance with EN 45545-2 	Yes
• KC approval	Yes
Standards, specifications, approvals / marine classi	fication
Marine classification association	
• Bureau Veritas (BV)	Yes
 Korean Register of Shipping (KRS) 	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	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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