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
Transmission 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 / others	
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 - • at DC / Rated value 24 V Operating current / of the signaling contacts - • at DC / maximum 0.1 A		
design of the removable storage Yes • C-PLUG Yes Signal-Inputs/outputs Operating voltage / of the signaling contacts • at DC / Rated value 24 V Operating current / of the signaling contacts 0.1 A Supply voltage, current consumption, power loss 0.1 A		
 C-PLUG Yes 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 		
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		
Operating voltage / of the signaling contacts 24 V • at DC / Rated value 24 V Operating current / of the signaling contacts 0.1 A Supply voltage, current consumption, power loss 0.1 A		
• at DC / Rated value 24 V Operating current / of the signaling contacts 0.1 A • at DC / maximum 0.1 A		
Operating current / of the signaling contacts • at DC / maximum Supply voltage, current consumption, power loss		
at DC / maximum 0.1 A Supply voltage, current consumption, power loss		
Supply voltage, current consumption, power loss		
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		
F 3 A / 32 V		
Consumed current / maximum 0.7 A		
Power loss [W]		
• at DC / at 24 V 16.6 W		
Permitted 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		
• at 25 °C / without condensation / during 95 %		
operation / maximum		
Protection class IP IP20		
Design, dimensions and weight		
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 properties, functions, components / genera	l .
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	

Product functions / management, configuration	
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 / Diagnosis	
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
Draduct functions (DUCD	
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 Product function Ring redundancy	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	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

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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 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

Standards, specifications, approvals / CE	
Certificate of suitability / CE marking	Yes
Standards, specifications, approvals / miscellaneou	c
Certificate of suitability	5 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 50121-4 	Yes
 Fire protection in accordance with EN 45545-2 	Yes
 KC approval 	Yes
Standards, specifications, approvals / ship classifica	ation
Marine classification association	
• Bureau Veritas (BV)	Yes
Standards, specifications, approvals / product confo	prmity
MTBF	40 y
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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