## **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	
<ul> <li>for network components or terminal equipment</li> </ul>	4
Number of 10/100/1000 Mbit/s RJ45 ports /	
Integrated	
<ul> <li>with securing collar</li> </ul>	4
Number of connectable media modules	
• with 2 ports	2
Interfaces / other	
Number of electrical connections	
<ul> <li>for signaling contact</li> </ul>	1
• for media module	2
• for power supply	1
<ul> <li>for redundant voltage supply</li> </ul>	1
Type of electrical connection	

<ul> <li>for signaling contact</li> </ul>	2-pole terminal block
<ul> <li>for power supply</li> </ul>	4-pole terminal block
design of the removable storage	Yes
• C-PLUG	Tes
Signal inputs/outputs	
Operating voltage / of the signaling contacts	
<ul> <li>at DC / Rated value</li> </ul>	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	
<ul> <li>at 25 °C / without condensation / during</li> </ul>	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
<ul> <li>35 mm DIN rail mounting</li> </ul>	Yes
wall mounting	Yes
<ul> <li>S7-300 rail mounting</li> </ul>	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
<ul> <li>web-based management</li> </ul>	Yes
MIB support	Yes
• TRAPs via email	Yes
<ul> <li>Configuration with STEP 7</li> </ul>	Yes
• RMON	Yes
Port mirroring	Yes
<ul> <li>multiport mirroring</li> </ul>	Yes
• CoS	Yes
<ul> <li>PROFINET IO diagnosis</li> </ul>	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
<ul> <li>IGMP (snooping/querier)</li> </ul>	Yes

Identification & maintenance function	_
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
<ul> <li>I&amp;M1 – higher-level designation/location designation</li> </ul>	Yes
Product functions / Diagnostics	
Product function	
<ul> <li>Port diagnostics</li> </ul>	Yes
<ul> <li>Statistics Packet Size</li> </ul>	Yes
<ul> <li>Statistics packet type</li> </ul>	Yes
• Error statistics	Yes
● SysLog	Yes
Product functions / VLAN	
Product function	
<ul> <li>VLAN - port based</li> </ul>	Yes
<ul> <li>VLAN - protocol-based</li> </ul>	No
<ul> <li>VLAN - IP-based</li> </ul>	No
<ul> <li>VLAN dynamic</li> </ul>	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 <ul> <li>DHCP client</li> <li>DHCP Option 82</li> </ul>	Yes
Product function  DHCP client	
Product function <ul> <li>DHCP client</li> <li>DHCP Option 82</li> </ul>	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
<ul> <li>Product function</li> <li>DHCP client</li> <li>DHCP Option 82</li> <li>DHCP Option 66</li> <li>DHCP Option 67</li> </ul> Product functions / redundancy Product function <ul> <li>Ring redundancy</li> <li>High Speed Redundancy Protocol (HRP)</li> <li>high speed redundancy protocol (HRP) with redundancy manager</li> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul> Protocol / is supported / Media Redundancy Protocol (MRP)	Yes Yes Yes Yes Yes Yes
<ul> <li>Product function <ul> <li>DHCP client</li> <li>DHCP Option 82</li> <li>DHCP Option 66</li> <li>DHCP Option 67</li> </ul> </li> <li>Product functions / redundancy <ul> <li>Product function</li> <li>Ring redundancy</li> <li>High Speed Redundancy Protocol (HRP)</li> <li>high speed redundancy protocol (HRP) with redundancy manager</li> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul> </li> <li>Protocol / is supported / Media Redundancy Protocol (MRP)</li> <li>Product function <ul> <li>media redundancy protocol (MRP) with</li> </ul> </li> </ul>	Yes Yes Yes Yes Yes Yes Yes

• redundency precedure MCTD	Yes
redundancy procedure MSTP	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	
Parallel Redundancy Protocol	No
(PRP)/Redundant Network Access (RNA)	
Passive listening	Yes
Protocol / is supported	
• STP/RSTP	Yes
• STP	Yes
• RSTP	Yes
• MSTP	Yes
<ul> <li>RSTP big network support</li> </ul>	Yes
• LACP	Yes
Product functions / Security	
Product function	
ACL - MAC-based	Yes
<ul> <li>ACL - port/MAC-based</li> </ul>	Yes
• IEEE 802.1x (radius)	Yes
<ul> <li>Broadcast/Multicast/Unicast Limiter</li> </ul>	Yes
<ul> <li>broadcast blocking</li> </ul>	Yes
Protocol / is supported	
• SSH	Yes
Product functions / time	
Product function	
<ul> <li>SICLOCK support</li> </ul>	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
<ul> <li>for hazardous zone</li> </ul>	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
<ul> <li>for safety / from CSA and UL</li> </ul>	UL 60950-1, CSA C22.2 No. 60950-1
<ul> <li>for hazardous zone / from CSA and UL</li> </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
<ul> <li>for emitted interference</li> </ul>	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
<ul> <li>Railway application in accordance with EN</li> </ul>	Yes
50155	
<ul> <li>Railway application in accordance with EN</li> </ul>	Yes
50121-4	
<ul> <li>Fire protection in accordance with EN 45545-2</li> </ul>	Yes
• KC approval	Yes
Standards, specifications, approvals / marine classi	fication
Marine classification association	
• Bureau Veritas (BV)	Yes
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	Yes
Further information / Internet-Links	
Internet-Link	
<ul> <li>to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	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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