6GK5308-2GG10-2AA2

Data sheet



SCALANCE X308-2M; 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; Select/set button; PROFINET IO device; network management; Integrated redundancy manager; office features (RSTP, VLAN, IGMP,...); C-plug in scope of delivery

product type designation	SCALANCE X308-2M	
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	
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	
type of voltage supply / redundant power supply unit	No	
type of voltage / 1 / of the supply voltage	DC	
supply voltage / 1 / rated value	24 V	
power loss [W] / 1 / rated value	16.6 W	
supply voltage / 1 / rated value	18 32 V	
 consumed current / 1 / maximum 	0.7 A	
 type of electrical connection / 1 / for power supply 	4-pole terminal block	
 product component / 1 / fusing at power supply input 	Yes	
ambient conditions		

anblent temperature • during storage • during storage • during transport • note Reduced operating importature through the use of media modules (-40 70° °C - 40 ±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 operation / maximum operating temperature is reduced to +50° °C. resolution of the storage of the		
during stranger during tranport ricelar variety of the control of th	ambient temperature	
• during transport • note • note Reduced operating temperature through the use of media modules (-40 or Ch - 470 or Ch or SPP plug-in transcalvers (-40 or Ch - 400 or Ch, if the device is installed in the vertical position, the maximum operating temperature is reduced to +50 °C. ### 15 °C7 without condensation / during operation / maximum protection class IP ### 120 or Compact ### 124 or Compact ### 125 or Compact ### 125 or Compact ### 126 or Compact	5 1	
enote Reduced operating temperature through the use of media modules (40 °C to +80 °C) Cor of SPP pulpin transceleser, 540 °C to +80 °C) 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 operation / maximum protection class IP design clean class IP design compact width 120 mm height 125 mm of eight 124 mm net weight 134 mm net weight * If a law in the part of the protection of a 35 mm standard mounting rail is not permitted. * If a law in the part of the	during storage	-40 +70 °C
relative humidity * at 25 °C / without condensation / during operation / maximum perating temperature is installed in the vertical position, the maximum operating temperature is reduced to +50 °C. **Proceeding of the process of t	 during transport 	-40 +70 °C
125 °C / without condensation / during operation / maximum protection class IP	• note	°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
maximum protection class IP IP20	relative humidity	
design compact width 120 mm 125 mm		95 %
design	protection class IP	IP20
Meight	design, dimensions and weights	
Desight	design	compact
depth 1.4 kg 1	width	120 mm
depth	height	125 mm
1.4 kg		124 mm
### Action of the part of the	- ·	1.4 kg
• 19-inch installation • 35 mm top hat DIN rail mounting • wall mounting • S7-300 rail mounting • S7-300 rail mounting • S7-300 rail mounting • S7-1500 rail mounting • S7-1500 rail mounting No Product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <i-0.31-s &="" (snooping="" 7="" acases="" cascading="" class="" cli="" configuration="" configuration,="" conformity="" cos="" diagnosis="" email="" engineering="" function="" function<="" functions="" gmrp="" identification="" igmp="" io="" is="" maintenance="" management="" management,="" mib="" mirroring="" ocp="" of="" port="" product="" profinet="" protocol="" querier)="" rmon="" snmp="" star="" step="" support="" supported="" switch-managed="" td="" telnet="" tetp="" topology="" traps="" via="" web-based="" with="" y1="" y2="" y3="" yes="" •=""><td></td><td>When used in shipbuilding, installation on a 35 mm standard mounting</td></i-0.31-s>		When used in shipbuilding, installation on a 35 mm standard mounting
• 35 mm top hat DIN rail mounting • wall mounting • S7-1500 rail mounting No Product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <\0.3i\s cascading in cases of star topology product functions / management, configuration, engineering product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RRMON • port mirroring • multiport mirroring • COS • PROFINET IO diagnosis PROFINET IO diagnosis PROFINET IO fingnosis PROFINET IO fingnosis PROFINET IO fingnosis PROFINET IO fingnosis PROFINET IO morth-managed product function / switch-managed product function / switch-managed • Telnet • Tel	• 19-inch installation	
wall mounting		
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web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring port mirroring multiport mirroring Yes PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported Telnet	product function	
	• CLI	Yes
	 web-based management 	Yes
 configuration with STEP 7 RMON port mirroring multiport mirroring Yes CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed Yes protocol / is supported Telnet HTTP HTTP Yes HTTPS FTP FTP BOOTP GMRP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) identiffication & maintenance function 	 MIB support 	Yes
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	 port mirroring 	Yes
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 GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function 		
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● SNMP v3 Yes ■ IGMP (snooping/querier) Yes identification & maintenance function	CNIMP	V 00
• IGMP (snooping/querier) identification & maintenance function		
identification & maintenance function	• SNMP v2	Yes
	SNMP v2SNMP v3	Yes Yes
• I&M0 - device-specific information Yes	SNMP v2SNMP v3IGMP (snooping/querier)	Yes Yes
	SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function	Yes 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
• DHCP Option 66	Yes
• DHCP Option 67	Yes
product functions / redundancy	165
product function	V
• 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
	Yes
ACL - port/MAC-based IEEE 802.1v (radius)	
IEEE 802.1x (radius) broadcast/multipast/uniquet limiter	Yes
broadcast/multicast/unicast limiter broadcast blocking	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 61000-6-4:2007 (Class A)	
for interference immunity	EN 61000-6-2:2005	
MTBF	40 y	
standards, specifications, approvals / CE		
certificate of suitability / CE marking	Yes	
standards, specifications, approvals / other		
certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007	
• C-Tick	Yes	
 railway application in accordance with EN 50155 	No	
KC approval	Yes	
standards, specifications, approvals / marine classification	1	
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/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		
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