SIEMENS

Data sheet

6GK5308-2GG10-2AA2



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		
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			

anbient emperature • utring storage • utring insport • note • note		
• during transport • 40 + 70 ° C • uding transport • 40 + 70 ° C • note Constant of the use of media modules (40) • role Constant of the use of media modules (40) • role Constant of the use of media modules (40) • role S 5 %. • role S 5 %. • role S 5 %. • role Constant of the use of media modules (40) • role (10) Constant of the use of media modules (40) • role (10) Constant of the use of media modules (40) • role (10) Constant of the use of media modules (40) • role (10) Constant of the use of media modules (40) • role (10) Constant of the use of media modules (40) • role (10) Constant of the use of media modules (40) • role (10) Constant of the use of media modules (40) • role (10) Yes • role (10) Fasting method • role (10) Yes	ambient temperature	
• during transport 40	 during operation 	
	 during storage 	-40 +70 °C
**C to +70 *C3 or SP pipeint transactives (+40 *C1 +00 *C). If the device is installed in the vertical position, the maximum operating itemperature is reduced to +50 *C. relative humidity 95 % organization is installed in the vertical position, the maximum operating itemperature is reduced to +50 *C. design, dimensions and weights 00 *C design compact design compact design 120 rm height 120 rm design 124 rm relative humidity 95 % in the veight 124 rm relative humidity 124 rm in the veight 1.4 kg fastering method 14 kg in the veight 1.4 kg is all mounting Yes is 37-300 ral mounting Yes is 3	 during transport 	-40 +70 °C
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temperature is reduced to +50 °C. eith 25 °C. / without condensation / during operation / maximum 95 % protection class IP IP20 design, dimensions and weights 00mpact design, dimensions and weights 120 mm design, dimensions and weights 120 mm design, dimensions and weights 125 mm design, dimensions and weights 124 mm design, dimensions and weights 124 mm design, dimensions and weights 124 mm design dimensions and weights 124 mm fastening method 14 ksp fastening method No * 99 inch installation No * 93 robio and mounting Yes * 93 robio and mounting Yes exacting in the case of a robuot robio protect foreclons, product foreclons, produc		
relative humidity • at 25 °(2) without condensation / during operation / protection class IP //// 20 //////////////////////////////		
• at 25 °C / without condensation / during operation / maximum95%protection class IPIP20design, dimensions and weightscompactwidth120 mmheight122 mmheight124 mmnet weight14 kgfastening methodYes• 19 inch installationNo• 53 mm top hat DIN rail mounting • val mountingYes• 57-300 rail mountingYes• 57-300 rail mountingYes• 57-1600 rail mountingNo• 57-1600 rail mountingYes• 63 mit top hat DIN rail mountingYes• 71-100 rail mountingYes• 100 rail mountingYes• 100 rail mountingYes• 100 rail mountingYes• 111 rail rail rail rail rail rail rail rail	relative humidity	
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design compact design compact width 120 mm height 125 mm depth 14 kg fastening method 14 kg of symmoly hat DIN rail mounting rails not permitted. • 19-inch installation No • 53 mm top hat DIN rail mounting Yes • symmoly rail mounting Yes • symmoly rail mounting Yes • 57-300 rail mounting Yes • 57-300 rail mounting Yes • 57-7300 rail mounting Yes • 57-7300 rail mounting Yes • 67-7300 rail mounting Yes • 67-1050 rail mounting Yes • 70-duct functions, product component / general general recondiguration time of s-0.3x-s any (depending only on signal propagation time) product function Yes • Cul Yes • Cul Yes • Millis support Yes • Millis support Yes • Monim Yes • product function Yes • PROFINET IO diagnosis Yes • PROFINET IO diagnosis Yes • FIPP Yes • FIPP Yes • FIPF Yes </td <td></td> <td>33 /0</td>		33 /0
design compact design compact width 120 mm heigh 126 mm depth 124 mm net weight 14 kg fastening method 14 kg • 19-inch installation No • 53 m top hat DIN rail mounting Yes • wall mounting Yes • 57-500 rail mounting Yes • 57-7300 rail mounting Yes • 62.1 gearcating in the case of a facture configuration, engineering reconcing in tease of star topology any (depending only on signal propagation time) product function Yes • Call Yes • Call Yes • Call Yes • Product function Yes • Fanot Yes	protection class IP	IP20
design compact width 120 mm height 126 mm depth 124 mm net weight 144 mg fastening method When used in shipbuilding, installation on a 35 mm standard mounting rails not permitted. • 19-inch installation No • 35 mm top hat DNI rail mounting Yes • S7-300 rail mounting Yes • S7-300 rail mounting Yes • S7-1500 rail mounting Yes • Cascading in the case of a redundark ring / at reconfiguration ince of <i>0.01 100 cascading in cases of star topology any (depending only on signal propagation time) product functions / management. Yes • CLI Yes • moth mirroring Yes • onfiguration with STEP 7 Yes • Indth informing Yes • protocol / is support Yes • Tent Yes • FTP Yes • F</i>	•	
width120 mmheight125 mmdepth124 mmnet weight1.4 kgfastening methodWhen used in shipbuilding, installation on a 35 mm standard mounting rall is not permitted.• 19-inch installationNo• 35 mm top hat DIN rall mountingYes• well mountingYes• well mountingYes• 57-500 rail mountingYes• 57-500 rail mountingNo• 57-500 rail mountingYes• 57-500 rail mountingYes• 57-500 rail mountingNoreconfiguration time of <<-0.31-s		compact
height 125 mm depth 124 mm net weight 124 mm fastening method 124 mm is not permitted. 124 mm is not permitted. 124 mm is not permitted. When used in shipbuilding, installation on a 35 mm standard mounting is not permitted. No is not permitted. Yes is not permitten or in		
depth 124 mm net weight 14 kg fastening method When used in shipbuilding, installation on a 35 mm standard mounting rall is not permitted. • 19-inch installation No • 35 mm top hat DIN rail mounting Yes • 19-inch installation No • 35 mm top hat DIN rail mounting Yes • 57-360 rail mounting Yes • 57-360 rail mounting No • 57-360 rail mounting No reconfiguration time of <-0.3x-s		
net weight 1.4 kg fastening method When used in shipbuilding, installation on a 35 mm standard mounting rails in ot permitted. • 19-inch installation No • 35 mm top hat DIN rail mounting Yes • 57.300 rail mounting Yes • 57.7300 rail mounting Yes • 62.01 (depending only on signal propagation time) product function Yes • CLI Yes • CLI Yes • TRAPs via email Yes • configuration with STEP 7 Yes • RMON Yes • port mirroring Yes • protocol r is supported Yes • FROFINET conformity class B protocol / is supported Y		
fastening method When used in shipbaliding, installation on a 35 mm standard mounting rail is not permitted. • 19-inch installation No • 35 mm top hat DIN rail mounting Yes • wall mounting Yes • \$7-300 rail mounting Yes • \$7-300 rail mounting Yes • \$7-500 rail mounting Yes • Cascading in the case of a redundant ring / at reconfiguration time of <		
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• S7-300 rail mounting Yes • S7-1500 rail mounting No cascading in the case of a redundant ring / at reconfiguration time of <<-0.31-s		
S7-1500 rail mounting No product features, product functions, product components / general Integration time of <-0.3x-s	-	
product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <\-0.3\~s	0	
cascading in the case of a redundant ring / at reconfiguration time of <\-0.3\-s	 S7-1500 rail mounting 	No
reconfiguration time of <\-0.3\-s any (depending only on signal propagation time) product functions / management, configuration, angineering meanagement product function • CLI Yes Yes • web-based management Yes Yes • TRAPs via email Yes Yes • configuration with STEP 7 Yes Yes • port mirroring Yes Yes • port mirroring Yes Yes • coS Yes Yes • protintinroring Yes Yes • protocof lingnosis Yes Yes • PROFINET IO diagnosis Yes Yes • protocol / is supported Yes Yes • TEIP Yes Yes • TETP Yes Yes • TETP Yes Yes • FTP Yes Yes • FTP Yes Yes • DCP Yes Yes • DCP Yes Yes • DCP Yes Yes	product features, product functions, product components	/ general
product functions / management, configuration, engineering product function • CLI Yes • web-based management Yes • IMB 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 IO diagnosis Yes • Protocol / is supported Yes • Telnet Yes • TETP Yes • TETP Yes • FTP Yes • FTP Yes • FTP Yes • GMRP Yes • BOOTP Yes • DCP Yes • LLDP Yes • SNMP v3 Yes • GMP (snooping/querier) Yes		100
product function Yes • 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 to diagnosis Yes • PROFINET to diagnosis Yes • PROFINET conformity class B product function / switch-managed Yes • Telnet Yes • Telnet Yes • Telnet Yes • FTP Yes • GMRP Yes • GMRP Yes • DCP Yes • LLDP Yes • SIMMP v1 Yes • SIMMP v3 Yes • SIMMP v3 Yes • SIMMP v3 Yes • Gentforction & waintenance function Yes	cascading in cases of star topology	any (depending only on signal propagation time)
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· RMON Yes • port mirroring Yes • multiport mirroring Yes • CoS Yes • PROFINET IO diagnosis Yes product function / switch-managed Yes if elnet Yes • HTTP Yes • HTTPS Yes • FTP Yes • BOOTP Yes • GMRP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) Yes • IGMP (snooping/querier) Yes		
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• multiport mirroringYes• CoSYes• PROFINET IO diagnosisYesPROFINET conformity classB• product function / switch-managedYes• protocol / is supportedYes• TelnetYes• TelnetYes• HTTPYes• HTTPSYes• FTFPYes• FTFPYes• FTFPYes• GMRPYes• DCPYes• LLDPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yesidentification & maintenance functionYes		
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TelnetYesHTTPYesHTTPSYesTFTPYesFTPYesBOOTPYesGMRPYesDCPYesLLDPYesSNMP v1YesSNMP v2YesGMP (snooping/querier)Yesidentification & maintenance functionYes	product function / switch-managed	Yes
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HTTPS Yes • FTP Yes • BOOTP Yes • BOOTP Yes • GMRP Yes • DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) Yes	Telnet	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 Yes	• HTTP	Yes
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• BOOTP Yes • GMRP Yes • DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) Yes	• TFTP	Yes
• BOOTP Yes • GMRP Yes • DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) Yes	• FTP	Yes
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• DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) Yes identification & maintenance function Yes		
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• SNMP v3 Yes • IGMP (snooping/querier) Yes identification & maintenance function Yes		
IGMP (snooping/querier) Yes identification & maintenance function		
identification & maintenance function		
I&MU - device-specific information Yes		
	 I&INU - 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
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	40 y
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environm	
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
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• C-Tick	Yes
KC approval	Yes
 railway application in accordance with EN 50155 	No
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/tia-selection-tool
to website: Industrial communication	http://www.siemens.com/simatic-net
to website: Industry Mall to website: Information and Developed Conter	https://mall.industry.siemens.com
to website: Information and Download Center	http://www.siemens.com/industry/infocenter
to website: Image database to website: CAx Download Manager	http://automation.siemens.com/bilddb
to website: CAx-Download-Manager to website: Industry Opline Support	http://www.siemens.com/cax
to website: Industry Online Support security information	https://support.industry.siemens.com
	Ciamona providea products and calutions with industrial accurity
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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