SIEMENS

Data sheet

6GK5308-2FM10-2AA3



SCALANCE X308-2LD, managed plus IE switch, 2x 1000 Mbit/s SM SC, 1x 10/100/1000 Mbit/s, 7x 10/100 Mbit/s RJ45 ports, LED diagnostics, error signaling contact with select/set pushbutton, PROFINET IO device, network management, integrated redundancy manager, office features (RSTP, VLAN, IGMP,...) C-PLUG in scope of supply.

Figure similar

product type designation	
product brand name	SCALANCE
product type designation	X308-2LD
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 	8
number of 10/100 Mbit/s RJ45 ports	
with securing collar	7
number of 10/100/1000 Mbit/s RJ45 ports	
with securing collar	1
number of 1000 Mbit/s SC ports	
• for single mode (LD)	2
transmission method / of the optical interface	1000BaseLX LD
interfaces / other	
number of electrical connections	
 for signaling contact 	1
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
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	9.6 W
 supply voltage / 1 / rated value 	18 32 V
 consumed current / 1 / maximum 	0.4 A
 type of electrical connection / 1 / for power supply 	4-pole terminal block
 product component / 1 / fusing at power supply input 	Yes
 fuse protection type / 1 / at input for supply voltage 	F 3 A / 32 V

ambient temperature during operature during operature during strange during stran	ambient conditions			
during parasion				
during storage 4.0	•	-40 +60 °C		
+ 0				
redative humidity				
# 125 "C7 without condensation / during operation / maximum protection class IP IP30 IP		40 170 0		
Production class IP	•	95 %		
design		35 /6		
Sesign Compact Compa	protection class IP	IP30		
width 120 mm height 123 mm dopph 123 mm net weight 1.4 kg fastering method 14 kg a 15 min bop hat DIN rail mounting Yes a Wall mounting Yes b 57-300 rail mounting Yes c 300 rail mounting Yes b 67-1500 rail mounting Yes c 300 rail mounting </td <td>design, dimensions and weights</td> <td></td>	design, dimensions and weights			
height 125 mm 123 mm 123 mm 124 kg 125 mm 123 mm	design	compact		
	width	120 mm		
intervesight 1.4 kg fastering method When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted. • 19-inch installation No • 35 mm top hat DIN rail mounting Yes • \$7-1500 rail mounting Yes • \$7-1500 rail mounting No • \$7-1500 rail mounting No reaceading in the case of a redundant ring / at reconfiguration time of \$4-0.3 ** 100 reaceading in the case of a redundant ring / at reconfiguration time of \$4-0.3 ** 100 reaceading in the case of a redundant ring / at reconfiguration mounting of \$4-0.3 ** 100 reaceading in the case of a redundant ring / at reconfiguration mounting of \$4-0.3 ** 100 reaceading in the case of a redundant ring / at reconfiguration mounting of \$4-0.3 ** 100 reaceading in the case of a redundant ring / at reconfiguration mounting on the propagation time) 100 reduct functions / management, configuration, engineering mounting on the propagation time) 100 reduct functions / management Yes • Milb support Yes • Reduct function Yes • Reduct function Yes • Reduct function function function Yes<	height	125 mm		
festening method • 19-inch installation • 19-inch installation • 19-inch installation • 35 mm top hat DIN rail mounting • 37-300 rail mounting • 57-1500 rail rail mounting • 57-1500 rail rail rail rail rail rail ra	depth	123 mm		
Aben	net weight	1.4 kg		
• 19-inch installation No • 25 mm top hat DIN rail mounting Yes • 37-300 rail mounting Yes • 57-1500 rail mounting No • 57-1500 rail mounting No cascading in the case of a redundant ring / at reconfiguration mot of <-0.3 vs		When used in shipbuilding, installation on a 35 mm standard mounting rail is		
• 35 mm top hat DIN rail mounting Yes • 37-300 rail mounting Yes • 57-1500 rail mounting No • 57-1500 rail mounting Interest the case of a redundant ring / at reconfiguration interest of v-0.3v-s • 60 cascading in the case of a redundant ring / at reconfiguration, engineering any (depending only on signal propagation time) • 60 cascading in the case of a redundant ring / at reconfiguration, engineering yes • 60 cascading in the case of a redundant ring / at reconfiguration, engineering Yes • 60 case of star topology any (depending only on signal propagation time) • 60 cascading in the case of a redundant ring / at reconfiguration, engineering Yes • 60 cascading in the case of a redundant ring / at reconfiguration, engineering Yes • 60 cascading in the case of a redundant ring / at reconfiguration with Star Properties Yes • 60 cascading in cases of star topology Yes • 60 cascading in the case of a redundant ring / at reconfiguration with Star Properties Yes • 60 cascading in the case of a redundant ring / at reconfiguration with Star Properties Yes <td>-</td> <td>not permitted.</td>	-	not permitted.		
• wall mounting • S7-300 rail mounting • S8-30-30 rail mounting • S8-30 rail m	• 19-inch installation	No		
• \$7-300 rail mounting • \$7-1500 rail mounting • \$7-1500 rail mounting • \$7-1500 rail mounting	 35 mm top hat DIN rail mounting 	Yes		
product features, product functions, product components / general caseading in the case of a redundant ring / at reconfiguration time of √-0.33-s cascading in cases of star topology product functions / management, configuration, engineering product functions / management, configuration, engineering product functions / management, configuration, engineering product functions / management	• wall mounting	Yes		
product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration and of <0.3 s < cascading in cases of star topology cascading in cases of star topology any (depending only on signal propagation time) product function / cut inction	• S7-300 rail mounting	Yes		
Cascading in the case of a redundant ring / at reconfiguration time of '-0.3'-5 any (depending only on signal propagation time)	S7-1500 rail mounting	No		
time of <-0.3 x-s	product features, product functions, product components / gene	eral		
cascading in cases of star topology product functions / management, configuration, engineering product function CLI • CLI • Wes • Web-based management • Mills support • TRAPs via email • configuration with STEP 7 • RIMON • port mirroring • multiport mirroring • multiport mirroring • COS • PROFINET IO diagnosis • switch-managed • PROFINET conformity class protocol / is supported • TITEP • SUS •	cascading in the case of a redundant ring / at reconfiguration	100		
product functions / management, configuration, engineering product function CLI web-based management Yes MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring Yes COS PROFINET IO diagnosis switch-managed PROFINET conformity class B PROFINET conformity class B PROFINET Wes HTTP Yes HTTP Yes HTTP Yes ORINR FTP Yes ORINR SIFP SIFP SIFP SIFP SIFP SIFP Yes SIMPY SIMPY SIMMPY SIMMPY SIMMPY IGAMP IGAMP IGAMP SIMMPY SIMMPY IGAMP IGAMP SIMMPY Yes IGAMP IGAMP SIMMPY SIMMPY SIMMPY SIMMPY SIMMPY Yes SIMMPY Yes SIMMPY Yes IGAMP SIMMPY Yes SIMMP		any (depending only on signal propagation time)		
Product function CLI		, , , , , , , , , , , , , , , , , , , ,		
• CLI • web-based management • Milb support • ITARPs via email • configuration with STEP 7 • RMCN • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis • switch-managed PROFINET conformity class • switch-managed • res • PROFINET conformity class B protocol / is supported • Teinet • Teinet • Yes • HTTP • Yes • HTTP • Yes • TFTP • FTP • FTP • SMDOTP • BOOTP • GMRP • DCP • SMMP v1 • SNMP v1 • SNMP v2 • SMMP v3 • IGMP (noping/querier) • IdM1 - ligher level designation/location designation • product function • I&M0 - device-specific information • I&M0 - device-specific information • I&M0 - device-specific information • l&M0 - device-specific information • RMM1 - ligher level designation/location designation • port diagnostics Yes				
web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring coS PROFINET IO diagnosis switch-managed PROFINET conformity class PROFINET	·	Ves		
	-			
• configuration with STEP 7 Yes • RMON Yes • port mirroring Yes • multiport mirroring Yes • CoS Yes • PROFINET IO diagnosis Yes • switch-managed Yes PROFINET conformity class B Protocol / is supported Yes • Teinet Yes • HTTP Yes • HTTPS Yes • TFTP Yes • FTP Yes • BOOTP Yes • GMRP Yes • DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • SIMP (snooping/querier) Yes • I&MO - device-specific information Yes				
RMON Yes port mirroring Yes multiport mirroring Yes COS Yes PROFINET IO diagnosis Yes switch-managed Yes PROFINET conformity class PROFINET conformity class B PROFINET wes FROFINET wes HITTP Yes HITTP Yes HITTP Yes HITTP Yes TFIP Yes FOF Wes SMMP FOF Wes SMMP SOMRP SOMRP SNMP Yes SNMP Yes SNMP Yes SNMP Yes SNMP Yes SNMP Yes SNMP Wes Identification & maintenance function IsM0 - device-specific information Nes Metal and suspenses Product functions / diagnostics Product function port diagnostics Product function Port diagnostics Yes Yes Yes Yes Yes Product function ● port diagnostics Yes Yes Yes Yes Yes Yes Product function ● port diagnostics Yes Yes Yes Yes Yes Yes Yes Product function ● port diagnostics Yes Yes Yes Yes Yes Yes Product function ● port diagnostics Yes Yes Yes Yes Yes Yes Yes Product function ● port diagnostics Yes Yes Yes Yes Yes Yes Product function ● port diagnostics Yes Yes Yes Yes Yes Yes Yes Product function ● port diagnostics				
● port mirroring Yes ● CoS Yes ● PROFINET IO diagnosis Yes ● switch-managed Yes PROFINET conformity class B PROFINET conformity class B Protocol / is supported Telnet ● HTTP Yes ● HTTP Yes ● HTTPS Yes ● TFTP Yes ● BOOTP Yes ● BOOTP Yes ● LLDP Yes ● SNMP v1 Yes ● SNMP v2 Yes ● SNMP v3 Yes ● IGMN (snooping/querier) Yes identification & maintenance function Yes • I&M - device-specific information Yes • I&M - device-specific information Yes • I&M - ligher level designation/location designation Yes • porduct functions / diagnostics Yes				
CoS PROFINET IO diagnosis yes switch-managed Yes PROFINET conformity class B protocol / is supported Telnet Yes HTTP Yes HTTP Yes HTTP Yes HTTP Yes TFIP Yes BOOTP Yes BOOTP Yes SMMP SNMP Y1 SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I &M0 - device-specific information				
● PROFINET IO diagnosis Yes ● switch-managed Yes PROFINET conformity class B protocol / is supported Freme ● Telnet Yes ● HTTP Yes ● HTTPS Yes ● FTP Yes ● BOOTP Yes ● BOOTP Yes ● DCP Yes ● LLDP Yes ● SNMP v1 Yes ● SNMP v2 Yes ● SNMP v3 Yes ● IGMP (snooping/querier) Yes identification & maintenance function Pes ● I&M0 - device-specific information Yes ● I&M1 - higher level designation/location designation Yes Product functions / diagnostics Yes	•			
● switch-managed Yes PROFINET conformity class B protocol / is supported *** *** • Telnet Yes • HTTP Yes • HTTPS Yes • HTTPS Yes • FTP Yes • BOOTP Yes • GMRP Yes • DCP Yes • LLDP Yes • SMMP v1 Yes • SMMP v2 Yes • IGMP (snooping/querier) Yes identification & maintenance function • I&MO - device-specific information Yes • I&MO - device-specific information Yes • I&MI - higher level designation/location designation Yes Product functions / diagnostics Yes Product functions / diagnostics Yes Product functions / diagnostics Yes Product functions / diagnostics Yes				
PROFINET conformity class B protocol / is supported • Telnet Yes • HTTP • HTTPS • HTTPS • FTP • FTP • BOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) identification & maintenance function • I&M0 - device-specific information • I&M1 - higher level designation/location designation • port diagnostics Product function • port diagnostics	-			
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• Telnet • HTTP • HTTPS • HTTPS • Yes • TFTP • Yes • FTP • BOOTP • BOOTP • GMRP • Jes • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) identification & maintenance function • I&M0 - device-specific information • I&M1 - higher level designation/location designation • port diagnostics Product function • port diagnostics Yes Yes Yes Yes Yes Yes Yes Y				
 HTTP HTTPS Yes TFTP Yes FTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) I&M0 - device-specific information I&M1 - higher level designation/location designation Yes product functions / diagnostics Yes 		Vec		
 HTTPS TFTP Yes FTP BOOTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation Product functions / diagnostics Yes 				
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FTP BOOTP BOOTP GMRP Yes CMRP PCP Ves LLDP Ves SNMP v1 SNMP v2 SNMP v2 SNMP v3 IGMP (snooping/querier) Ves				
BOOTP GMRP GMRP Yes DCP Yes LLDP SNMP v1 SNMP v2 SNMP v2 SNMP v3 GMRP Yes GMRP Yes SMP v3 GMRP Yes SMP (snooping/querier) Yes identification & maintenance function I & MO - device-specific information I & Yes Product functions / diagnostics Product function I & Yes Product f				
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DCP LLDP Yes SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product functions / diagnostics product function port diagnostics Yes				
LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product functions / diagnostics product function port diagnostics Yes				
SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product functions / diagnostics product function port diagnostics Yes Yes				
SNMP v2 SNMP v3 IGMP (snooping/querier) Yes identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product functions / diagnostics product function port diagnostics Yes				
SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product functions / diagnostics product function port diagnostics Yes				
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I&M1 - higher level designation/location designation Product functions / diagnostics product function • port diagnostics Yes				
product functions / diagnostics product function • port diagnostics Yes				
product function • port diagnostics Yes		Yes		
• port diagnostics Yes	product functions / diagnostics	product functions / diagnostics		
	·			
• statistics Packet Size 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
product functions / DHCP	
product function	
DHCP client	Yes
DHCP Option 82	Yes
DHCP Option 66	Yes
DHCP Option 67	Yes
product functions / redundancy	
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
• media redundancy protocol (MRP) with redundancy	Yes
manager	
• ring redundancy	Yes
 high speed redundancy protocol (HRP) with redundancy manager 	Yes
 high speed redundancy protocol (HRP) with standby redundancy 	Yes
 redundancy procedure STP 	Yes
 redundancy procedure RSTP 	Yes
 redundancy procedure MSTP 	Yes
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	
● 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	No
standards, specifications, approvals	
certificate of suitability	
• CE marking	Yes
KC approval	Yes
Regulatory Compliance Mark (RCM)	Yes
standard	
• for EMC interference emission	EN 61000-6-4:2007 (Class A)
• for immunity to EMC	EN 61000-6-2:2005
• for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1

standards, specifications, approvals / hazardous environments	
certificate of suitability	
• ATEX	Yes
• UKEX	Yes
• IECEx	Yes
ULhazloc approval	Yes
CCC / for hazardous zone according to GB standard	Yes
FM registration	Yes
standards, specifications, approvals / other	
certificate of suitability	
 railway application in accordance with EN 50155 	No
RoHS conformity	Yes
standards, specifications, approvals / marine classification	
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	Yes
• DNV GL	Yes
Korean Register of Shipping (KRS)	Yes
Lloyds Register of Shipping (LRS)	Yes
Nippon Kaiji Kyokai (NK)	Yes
Polski Rejestr Statkow (PRS)	Yes
Royal Institution of Naval Architects (RINA)	Yes
product functions / general	
MTBF	25 a
reference code	
according to IEC 81346-2	KF
• according to IEC 81346-2:2019	KFE
Warranty period	5 a
further information / internet links	
internet link	
to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
to website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/
to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://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 cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly
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Approvals / Certificates	and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates,

CE

Declaration of Conformity



Miscellaneous



<u>KC</u>

For use in hazardous locations

Test Certificates

Marine / Shipping





<u>FM</u>

CCC-Ex

Type Test Certificates/Test Report



Marine / Shipping







NK / Nippon Kaiji Ky-okai





Marine / Shipping

Environment

Confirmation



last modified:

8/16/2024

