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 button, PROFINET IO device, network management, Integrated redundancy manager, office features (RSTP, VLAN, IGMP,..) C-plug in scope of delivery

Figure similar

Product type designation	SCALANCE 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 / Integrated	
• with securing collar	7
Number of 10/100/1000 Mbit/s RJ45 ports /	
Integrated	
• with securing collar	1
Number of 1000 Mbit/s SC ports	
• for single mode (LD)	2
Interfaces / other Number of electrical connections	
 for signaling contact 	1

 in power supply in riserudnant voltage supply Z Type of electrical connection for signaling contact efor power supply design of the removable storage c.CPLUG Ves Signal inputs/outputs Operating voltage / of the signaling contacts at DC / Rated value 24 V Operating voltage / of the signaling contacts at DC / Rated value 24 V Operating voltage / of the signaling contacts at DC / maximum 0.1 A Supply voltage, current consumption, power loss Type of voltage a of the supply voltage DC Supply voltage / of the supply voltage DC Supply voltage external external external / minimum 42 V external / minimum 82 V Consumed current / fusing at power supply input Yes Fuse protection type / at input for supply voltage external / maximum A / 32 V Consumed current / maximum A / 32 V Consumed current / maximum A A Power loss [W] at DC / at 24 V S6 W Ambient temperature 40 +60 °C 40 ruing operation 40 +70 °C Relative humidity et 25 °C / without condensation / during ops % operation / maximum Protection class IP IP30 	• for power supply	1
Type of electrical connection 2-pole terminal block • for signaling contact 4-pole terminal block design of the removable storage - • C-PLUG Yes Signal inputs/outputs 24 V Operating voltage / of the signaling contacts 24 V operating voltage / of the signaling contacts 24 V Operating current / of the signaling contacts 0.1 A Supply voltage, current consumption, power loss V Type of voltage supply / redundant power supply unit No Type of voltage supply voltage DC Supply voltage DC supply voltage DC seternal 24 V external / minimum 18 V • external / minimum 18 V • external / minimum 24 V • external / maximum 22 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 0.4 A Power loss [W] • 6 W Ambient temperature -40 +60 °C • during operation -40 +70 °C		
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• at DC / Rated value 24 V Operating current / of the signaling contacts 0.1 A • at DC / maximum 0.1 A Supply voltage, current consumption, power loss Type of voltage supply / redundant power supply unit Type of voltage / of the supply voltage DC Supply voltage 0.1 A • external 24 V • external 24 V • external / minimum 18 V • external / maximum 32 V Product component / fusing at power supply upit Yes Fuse protection type / at input for supply voltage F 3 A / 32 V Consumed current / maximum 0.4 A Power loss [W] • at DC / at 24 V • at DC / at 24 V 9.6 W Ambient temperature -40 +60 °C • during operation -40 +70 °C • during storage -40 +70 °C Relative humidity 95 % • at 25 °C / without condensation / during operation / maximum IP30	Signal inputs/outputs	
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• external 24 V • external / minimum 18 V • external / maximum 32 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 0.4 A Power loss [W] • at DC / at 24 V • at DC / at 24 V 9.6 W Ambient temperature -40 +60 °C • during operation -40 +70 °C • during transport -40 +70 °C Relative humidity 95 % • at 25 °C / without condensation / during 95 % • protection class IP IP30	Type of voltage / of the supply voltage	DC
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Fuse protection type / at input for supply voltage F 3 A / 32 V Consumed current / maximum 0.4 A Power loss [W] • at DC / at 24 V • at DC / at 24 V 9.6 W Ambient conditions Ambient temperature • during operation -40 +60 °C • during storage -40 +70 °C • during transport -40 +70 °C Relative humidity 95 % • at 25 °C / without condensation / during operation / maximum 95 %	• external / maximum	32 V
Consumed current / maximum 0.4 A Power loss [W] • at DC / at 24 V • at DC / at 24 V 9.6 W Ambient conditions Ambient temperature • during operation • during storage • during transport -40 +70 °C Relative humidity • at 25 °C / without condensation / during operation / maximum Protection class IP	Product component / fusing at power supply input	Yes
Power loss [W] 9.6 W Ambient conditions -40 +60 °C Ambient temperature -40 +60 °C • during operation -40 +70 °C • during transport -40 +70 °C Relative humidity 95 % • at 25 °C / without condensation / during 95 % Protection class IP IP30	Fuse protection type / at input for supply voltage	F 3 A / 32 V
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Ambient conditions Ambient temperature • during operation • during storage • during transport • during transport • during transport • at 25 °C / without condensation / during operation / maximum Protection class IP IP30	Power loss [W]	
Ambient temperature -40 +60 °C • during operation -40 +70 °C • during transport -40 +70 °C • during transport -40 +70 °C Relative humidity 95 % • at 25 °C / without condensation / during operation / maximum 95 % Protection class IP IP30	• at DC / at 24 V	9.6 W
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• during transport -40 +70 °C Relative humidity • at 25 °C / without condensation / during operation / maximum Protection class IP IP30	 during operation 	-40 +60 °C
Relative humidity 95 % • at 25 °C / without condensation / during operation / maximum 95 % Protection class IP IP30	 during storage 	-40 +70 °C
at 25 °C / without condensation / during 95 % operation / maximum Protection class IP IP30	during transport	-40 +70 °C
operation / maximum Protection class IP IP30	Relative humidity	
Protection class IP IP30	 at 25 °C / without condensation / during 	95 %
Design, dimensions and weights	Protection class IP	IP30
Design compact	•	
Width 120 mm		
Height 125 mm		
Depth 123 mm	•	
Net weight 1.4 kg		
Mounting typeWhen used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted.	Mounting type	

• 10 inch installation	Νο
• 19-inch installation	Yes
• 35 mm DIN rail mounting	
• wall mounting	Yes
 S7-300 rail mounting 	Yes
S7-1500 rail mounting	No
Product features, product functions, product comp	oonents / 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, er	ngineering
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	B
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
	Yes
 I&M1 – higher-level designation/location designation 	

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
Passive listening	Yes
Protocol / is supported	
• STP/RSTP	Yes

	Yes
• STP	Yes
• RSTP	
• 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
Duradu at functions / time	
Product functions / time Product function	
SICLOCK support	Yes
Protocol / is supported	
• NTP	Yes
• SNTP	Yes
IEEE 1588 profile default	No
Standards, specifications, approvals	
Standard	
	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
Standard	
Standard • for FM	2, Group IIC, T4 EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA
Standard • for FM • for hazardous zone	2, Group IIC, T4 EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X UL 60950-1, CSA C22.2 No. 60950-1 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 /
Standard • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL	2, Group IIC, T4 EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X UL 60950-1, CSA C22.2 No. 60950-1 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
Standard • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference	2, Group IIC, T4 EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X UL 60950-1, CSA C22.2 No. 60950-1 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 EN 61000-6-4:2007 (Class A)
Standard • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity	2, Group IIC, T4 EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X UL 60950-1, CSA C22.2 No. 60950-1 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 EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005
Standard • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity MTBF	2, Group IIC, T4 EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X UL 60950-1, CSA C22.2 No. 60950-1 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 EN 61000-6-4:2007 (Class A)
Standard • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity MTBF Standards, specifications, approvals / CE	2, Group IIC, T4 EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X UL 60950-1, CSA C22.2 No. 60950-1 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 EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005 25 y
Standard • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity MTBF	2, Group IIC, T4 EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X UL 60950-1, CSA C22.2 No. 60950-1 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 EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005
Standard • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity MTBF Standards, specifications, approvals / CE	2, Group IIC, T4 EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X UL 60950-1, CSA C22.2 No. 60950-1 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 EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005 25 y
Standard • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity MTBF Standards, specifications, approvals / CE Certificate of suitability / CE marking	2, Group IIC, T4 EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X UL 60950-1, CSA C22.2 No. 60950-1 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 EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005 25 y
Standard • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity MTBF Standards, specifications, approvals / CE Certificate of suitability / CE marking Standards, specifications, approvals / other	2, Group IIC, T4 EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X UL 60950-1, CSA C22.2 No. 60950-1 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 EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005 25 y Yes
Standard • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity MTBF Standards, specifications, approvals / CE Certificate of suitability / CE marking Standards, specifications, approvals / other Certificate of suitability	2, Group IIC, T4 EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X UL 60950-1, CSA C22.2 No. 60950-1 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 EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005 25 y Yes EN 61000-6-2:2005, EN 61000-6-4:2007

 KC approval 	Yes
Standards, specifications, approvals / marine classification	
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
• Bureau Veritas (BV)	Yes
 Det Norske Veritas (DNV) 	No
Germanische Lloyd (GL)	No
• DNV GL	Yes
 Korean Register of Shipping (KRS) 	Yes
 Polski Rejestr Statkow (PRS) 	Yes
 Royal Institution of Naval Architects (RINA) 	No

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

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