SIEMENS

Data sheet

6GK5310-0FA10-2AA3

SCALANCE X310, managed plus IE switch, 3x 10/100/1000 Mbit/ and 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



Product type designation	SCALANCE X310
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 	10
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	3
Interfaces / other	
Number of electrical connections	
 for signaling contact 	1
• for power supply	1
 for redundant voltage supply 	2
Type of electrical connection	
 for signaling contact 	2-pole terminal block

design of the removable storage Yes Signal inputs/outputs Imputs/outputs Operating voltage / of the signaling contacts et DC / Rated value 24 V Operating voltage / of the signaling contacts et DC / maximum 0.1 A Supply voltage, supply / rotudnant power loss Type of voltage / of the supply voltage DC Supply voltage, supply / rotudnant power supply unit No Type of voltage / of the supply voltage DC Supply voltage DC • 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 [M] • at DC / at 24 V • at DC / at 24 V 9.6 W Anbient temperature -40 +60 °C • during storage -40 +70 °C Relative humitity • at 25 °C / without condensation / during operation • at 25 °C / without condensation / during operation -40 +70 °C Relative humitity • at 25 °C / without condensation / during operation • during storage Compact With 120 mm Height 125 mm Design Compact	• for power supply	4-pole terminal block
Signal inputs/outputs Operating voltage/ of the signaling contacts • at DC / Rated value 24 V Operating current / of the signaling contacts 0.1 A Supply voltage, current consumption, power loss 7/pre of voltage supply / redundant power supply unit Type of voltage / of the supply voltage DC Supply voltage 24 V • external / minimum 18 V • external / minimum 18 V • external / minimum 24 V • external / 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 peration -40 +70 °C • during storage -40 +70 °C • during transport -40 +70 °C <	design of the removable storage	
Operating voltage / of the signaling contacts 24 V Operating current / of the signaling contacts 0.1 A • at DC / maximum 0.1 A Supply voltage DC Supply voltage for voltage supply / redundant power supply unit No Type of voltage supply / redundant power supply unit No Type of voltage / of the supply voltage DC Supply voltage DC Supply voltage 24 V • external 24 V • external 24 V • external / maximum 18 V • external / maximum 32 V Product component / fusing at power supply input Yes Fuse protection type / at input 95 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 storage -40 +70 °C • during storage -40 +70 °C • during storage -10 +70 °C Posign compact Worth 120 mm Protection class IP IP30	• C-PLUG	Yes
• at DC / Rated value 24 V Operating current / of the signaling contacts • at DC / maximum Supply voltage, current consumption, power loss Type of voltage supply / redundant power supply unit Type of voltage / of the supply voltage DC Supply voltage DC • external 24 V • external / minimum 18 V • external / minimum 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 storage -40 +70 °C • during transport -40 +70 °C • Design compact Width 120 mm • Height 125 mm Design compact Width 123 mm • tweight 1.4 kg Mounting type When		
Operating current / of the signaling contacts 0.1 A Supply voltage, current consumption, power loss No Type of voltage / of the supply voltage DC external Maximum 32 V Product component / fusing at power supply input Yes Fuse protection type / at input for supply voltage Consumed current / maximum O.4 A Power loss [W] et DC / at 24 V • at DC / at 24 V 9.6 W Ambient conditions -40 +60 °C Ambient sport -40 +60 °C • during operation -40 +70 °C Relative humidity 95 % operation / maximum 95 % Protection class IP IP30 Design compact Widh 120 rm Height 125 rm Depth 123 rm Net weight 1.4 k	Operating voltage / of the signaling contacts	
• at DC / maximum 0.1 Å 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	• at DC / Rated value	24 V
Supply voltage. current consumption, power loss Type of voltage supply / redundant power supply unit No Type of voltage supply / redundant power supply unit DC Supply voltage DC • external 24 V • external / minimum 18 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] 9.6 W Ambient conditions	Operating current / of the signaling contacts	
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Type of voltage / of the supply voltage DC Supply voltage 24 V • external 24 V • external / minimum 18 V • external / minimum 32 V Product component / fusing at power supply input Yees Fuse protection type / at input for supply voltage F 3 A / 32 V Consumed current / maximum 0.4 A Power loss [M] 9.6 W Ambient temperature -40 +60 °C • during operation -40 +70 °C • during transport -40 +70 °C Relative humidity 95 % • operation / maximum Protection class IP Posign, dimensions and weights 0 Design, compact Width 125 mm Depth 1.4 kg Mounting type When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted. • 19-inch installation No • 35 mm DIN rail mounting	Supply voltage, current consumption, power loss	
Supply voltage 24 V • 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] • 40 //// 4 A • 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 95 % Protection class IP IP30 Design compact Width 120 mm Height 125 mm Depth 123 mm Net weight 1.4 kg Mounting type When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted. • 19-inch installation No • 35 mm DIN rail mounting Yes	Type of voltage supply / redundant power supply unit	No
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Ambient conditions Ambient temperature • during operation • during storage • during storage • during transport • during transport • 40 +70 °C Relative humidity • at 25 °C / without condensation / during operation / maximum Protection class IP IP30 Design compact Width 120 mm Height 125 mm Depth 123 mm Net weight 1.4 kg Mounting type When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted. • 19-inch installation No • 35 mm DIN rail mounting Yes	Power loss [W]	
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mounting rail is not permitted.• 19-inch installationNo• 35 mm DIN rail mountingYes• wall mountingYes	Ambient temperature • during operation • during storage • during transport Relative humidity • at 25 °C / without condensation / during operation / maximum Protection class IP Design, dimensions and weights Design Width Height Depth	-40 +70 °C -40 +70 °C 95 % IP30 Compact 120 mm 125 mm 123 mm
• 35 mm DIN rail mounting Yes • wall mounting Yes	Ambient temperature • during operation • during storage • during transport Relative humidity • at 25 °C / without condensation / during operation / maximum Protection class IP Design, dimensions and weights Design Width Height Depth Net weight	-40 +70 °C -40 +70 °C 95 % IP30 compact 120 mm 125 mm 123 mm 1.4 kg
• wall mounting Yes	Ambient temperature • during operation • during storage • during transport Relative humidity • at 25 °C / without condensation / during operation / maximum Protection class IP Design, dimensions and weights Design Width Height Depth Net weight	-40 +70 °C -40 +70 °C 95 % IP30 Compact 120 mm 125 mm 123 mm 1.4 kg When used in shipbuilding, installation on a 35 mm standard
	Ambient temperature • during operation • during storage • during transport Relative humidity • at 25 °C / without condensation / during operation / maximum Protection class IP Design, dimensions and weights Design Width Height Depth Net weight Mounting type	-40 +70 °C -40 +70 °C 95 % IP30 Compact 120 mm 125 mm 125 mm 1.4 kg When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted.
• S7-300 rail mounting Yes	Ambient temperature • during operation • during storage • during transport Relative humidity • at 25 °C / without condensation / during operation / maximum Protection class IP Design, dimensions and weights Design Width Height Depth Net weight Mounting type • 19-inch installation	-40 +70 °C -40 +70 °C 95 % IP30 Compact 120 mm 125 mm 125 mm 123 mm 1.4 kg When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted. No
	Ambient temperature • during operation • during storage • during transport Relative humidity • at 25 °C / without condensation / during operation / maximum Protection class IP Design, dimensions and weights Design Width Height Depth Net weight Mounting type • 19-inch installation • 35 mm DIN rail mounting	-40 +70 °C -40 +70 °C 95 % IP30 Compact 120 mm 125 mm 125 mm 123 mm 1.4 kg When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted. No 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, eng	gineering
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	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
IGMP (snooping/querier)	Yes
Identification & maintenance function	
 I&M0 - device-specific information 	Yes
 I&M1 – higher-level designation/location 	Yes
designation	
Product functions / Diagnostics	
Product function	
Port diagnostics	Yes
Statistics Packet Size	Yes

	No.
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 	Yes
redundancy manager	
 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
• 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 	No
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	
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

Iternet-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
ourity information	

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http://support.automation.siemens.com. (V3.4)

newsletter. For more information, visit

Security information

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