SIEMENS

Data sheet

6GK5310-0FA10-2AA3

Product type designation



SCALANCE X310

SCALANCE X310, MANAGED PLUS IE SWITCH, 3 X 10/100/1000MBIT/S AND 7 X 10/100MBIT/S RJ45 PORTS, LED-DIAGNOSTICS, FAULT SIGNAL CONTACT WITH SELECT/SET-BUTTON, PROFINET-IO DEVICE, NETZWORK- MANAGEMENT, INTEGRATED REDUNDANCY MANAGER, OFFICE FEATURES (RSTP, VLAN, IGMP,...) C-PLUG IN SCOPE OF SUPPLY

Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
Interfaces	
Number of electrical/optical connections	
• for network components or terminal equipment / maximum	10
Number of electrical connections	
• for network components or terminal equipment	10
Type of electrical connection	
• for network components or terminal equipment	RJ45 port (3 x 1GE, 7 x FE)
Interfaces / for communication / integrated	
Number of 100 Mbit/s SC ports / for multimode	0
Number of 1000 Mbit/s LC ports / for multimode	0
Interfaces / others	
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
• for power supply	4-pole terminal block
design of the removable storage	
• C-PLUG	Yes

Signal-Inputs/outputs	
Operating voltage / of the signaling contacts	
• for DC / Rated value	24 V
Operating current / of the signaling contacts	
• for DC / maximum	0.1 A
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	
external	24 V
external	18 32 V
	Yes
Product component / fusing at power supply input	F 3 A / 32 V
Fuse protection type / at input for supply voltage Consumed current / maximum	0.4 A
	0.4 A
Active power loss	0.6.W
• for DC / at 24 V	9.6 W
Permitted ambient conditions	
Ambient temperature	
during operation	-40 +60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
Relative humidity	
• at 25 °C / without condensation / during	95 %
operation / maximum	
Protection class IP	IP30
Design, dimensions and weight	
Design 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
wall mounting	Yes
S7-300 rail mounting	Yes
• S7-1500 rail mounting	No
·	
Product properties, functions, components / genera	
Cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	100
reconliguration time of \/~0.3/~5	

0	•			4 1
Cascading	ın	cases	or star	topology

Any (depending only on signal propagation time)

Product functions / management, configuration	
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
• switch-managed	Yes
Protocol / is supported	
● Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
IGMP (snooping/querier)	Yes
Identification & maintenance function	
 I&M0 - device-specific information 	Yes
 I&M1 – higher-level designation/location designation 	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
Product functions / Diagnosis	
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
• STP	Yes
• RSTP	Yes
• MSTP	No
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
Does does to the section of 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	
• 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
Certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• CE marking	Yes
• C-Tick	Yes
 KC approval 	Yes
 Railway application in accordance with EN 50155 	No
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
Bureau Veritas (BV)	Yes
 Det Norske Veritas (DNV) 	Yes
Germanische Lloyd (GL)	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
 Polski Rejestr Statkow (PRS) 	No
MTBF / at 40 °C	40 y

Further Information / Internet Links

Internet-Link

• to website: Selector SIMATIC NET

SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/automation/net/catalog

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

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