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
Type of electrical connection	
• for network components or terminal equipment	RJ45 port (3 x 1GE, 7 x FE)
Interfaces / for communication / integrated	
Number of electrical connections / for network	10
components or terminal equipment	
Number of 100 Mbit/s SC ports	
• for multimode	0
Number of 1000 Mbit/s LC ports	
• for multimode	0
• for single mode (LD)	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
0	
Signal-Inputs/outputs Operating voltage / of the signaling contacts	
	24 V
at DC / Rated value	24 V
Operating current / of the signaling contacts	0.4.4
• at 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
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
Active power loss	
• at 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	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 / 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	
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
designation Protocol / is supported	
• SNMP v1	Yes
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• SNMP v2	Yes
• SNMP v3	Yes
Product functions / Diagnosis Product function	
	Yes
Port diagnostics	
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
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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
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/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

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