6GK5310-0FA10-2AA3

## **Data sheet**

product type designation



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

product type designation	COALAITOE ACTO	
transfer rate		
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s	
interfaces / for communication / maximum configuration for modular devices		
number of electrical ports / maximum	10	
interfaces / for communication / integrated		
number of electrical connections		
<ul> <li>for network components or terminal equipment</li> </ul>	10	
number of 10/100 Mbit/s RJ45 ports / integrated		
<ul> <li>with securing collar</li> </ul>	7	
number of 10/100/1000 Mbit/s RJ45 ports / integrated		
<ul> <li>with securing collar</li> </ul>	3	
interfaces / other		
number of electrical connections		
<ul> <li>for signaling contact</li> </ul>	1	
<ul><li>for power supply</li></ul>	1	
type of electrical connection		
<ul> <li>for signaling contact</li> </ul>	2-pole terminal block	
<ul><li>for power supply</li></ul>	4-pole terminal block	
design of the removable storage		
• C-PLUG	Yes	
signal inputs/outputs		
operating voltage / of the signaling contacts		
<ul><li>at DC / rated value</li></ul>	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	
<ul><li>supply voltage / 1 / rated value</li></ul>	24 V	
<ul><li>power loss [W] / 1 / rated value</li></ul>	9.6 W	
<ul><li>supply voltage / 1 / rated value</li></ul>	18 32 V	
<ul><li>consumed current / 1 / maximum</li></ul>	0.4 A	
<ul> <li>type of electrical connection / 1 / for power supply</li> </ul>	4-pole terminal block	
<ul> <li>product component / 1 / fusing at power supply input</li> </ul>	Yes	
ambient conditions		
ambient temperature		
<ul><li>during operation</li></ul>	-40 +60 °C	

**SCALANCE X310** 

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during storage	-40 +70 °C
<ul> <li>during transport relative humidity</li> </ul>	-40 +70 °C
at 25 °C / without condensation / during operation /	95 %
maximum	35 /0
protection class IP	IP30
design, dimensions and weights	
design	compact
width	120 mm
height	125 mm
depth	123 mm
net weight	1.4 kg
fastening method	When used in shipbuilding, installation on a 35 mm standard mounting
• 19-inch installation	rail is not permitted. No
35 mm top hat DIN rail mounting	Yes
wall mounting	Yes
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	No
product features, product functions, product components	-
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, engineeri	ng
product function	
• CLI	Yes
<ul> <li>web-based management</li> </ul>	Yes
MIB support	Yes
• TRAPs via email	Yes
• configuration with STEP 7	Yes
• RMON	Yes Yes
<ul><li>port mirroring</li><li>multiport mirroring</li></ul>	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     SNMP v2	Yes
SNMP v2 SNMP v3	Yes Yes
IGMP (snooping/querier)	Yes
identification & maintenance function	
1&M0 - device-specific information	Yes
I&M1 - higher level designation/location designation	Yes
product functions / diagnostics	
product function	
port diagnostics	Yes
statistics Packet Size	Yes
<ul> <li>statistics packet type</li> </ul>	Yes
• error statistics	Yes
SysLog	Yes
product functions / VLAN	
product function	

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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
<ul> <li>DHCP Option 82</li> </ul>	Yes
<ul> <li>DHCP Option 66</li> </ul>	Yes
<ul> <li>DHCP Option 67</li> </ul>	Yes
product functions / redundancy	
product function	
ring redundancy	Yes
High Speed Redundancy Protocol (HRP)	Yes
<ul> <li>high speed redundancy protocol (HRP) with</li> </ul>	Yes
redundancy manager	
<ul> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
protocol / is supported / Media Redundancy Protocol	Yes
(MRP)	
product function	
<ul> <li>media redundancy protocol (MRP) with redundancy</li> </ul>	Yes
manager	
redundancy procedure STP	Yes
<ul> <li>redundancy procedure RSTP</li> </ul>	Yes
redundancy procedure MSTP	Yes
<ul> <li>passive listening</li> </ul>	Yes
protocol / is supported	
STP/RSTP	Yes
• STP	Yes
• RSTP	Yes
• MSTP	Yes
<ul> <li>RSTP big network support</li> </ul>	Yes
• LACP	Yes
product functions / security	
product function	
ACL - MAC-based	Yes
<ul> <li>ACL - port/MAC-based</li> </ul>	Yes
• IEEE 802.1x (radius)	Yes
<ul> <li>broadcast/multicast/unicast limiter</li> </ul>	Yes
<ul><li>broadcast blocking</li></ul>	Yes
protocol / is supported	
• SSH	Yes
product functions / time	
product function	
SICLOCK support	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes
<ul> <li>IEEE 1588 profile default</li> </ul>	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 safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
for emitted interference	EN 61000-6-4:2007 (Class A)
for interference immunity	EN 61000-6-2:2005
MTBF	40 a
reference code	
<ul><li>according to IEC 81346-2</li></ul>	KF
according to IEC 81346-2:2019     ■	KFE

tandards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
tandards, specifications, approvals / hazardous environn	nents
standard / for hazardous zone  • from CSA and UL	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X  UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213-
• HOIH COA and OL	M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4
certificate of suitability	
CCC / for hazardous zone according to GB standard	Yes
tandards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
C-Tick	Yes
<ul> <li>KC approval</li> </ul>	Yes
<ul> <li>railway application in accordance with EN 50155</li> </ul>	No
tandards, specifications, approvals / marine classification	n
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	Yes
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	No
<ul> <li>Germanische Lloyd (GL)</li> </ul>	No
• DNV GL	Yes
Korean Register of Shipping (KRS)	Yes
Polski Rejestr Statkow (PRS)	Yes
Royal Institution of Naval Architects (RINA)	No
urther information / internet-Links	
Internet-Link	
to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
to website: Industrial communication	http://www.siemens.com/simatic-net
to website: Industry Mall     to website: Information and Download Contar	https://mall.industry.siemens.com
<ul> <li>to website: Information and Download Center</li> <li>to website: Image database</li> </ul>	http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb
to website: Image database     to website: CAx-Download-Manager	http://www.siemens.com/cax
to website: CAX-Download-Manager     to website: Industry Online Support	https://support.industry.siemens.com
ecurity information	https://support.industry.siemens.com
security information	
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