6GK5310-0FA10-2AA3

Data sheet



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
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	
at DC / rated value	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
supply voltage / 1 / rated value	24 V
power loss [W] / 1 / rated value	9.6 W
 supply voltage / 1 / rated value 	18 32 V
consumed current / 1 / maximum	0.4 A
 type of electrical connection / 1 / for power supply 	4-pole terminal block
 product component / 1 / fusing at power supply input 	Yes
ambient conditions	
ambient temperature	

during operation	-40 +60 °C
during operation during storage	-40 +70 °C
during storage during transport	-40 +70 °C
relative humidity	
at 25 °C / without condensation / during operation / maximum	95 %
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
•	rail is not permitted.
 19-inch installation 	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	/ general
cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	100
cascading in cases of star topology	any (depending only on signal propagation time)
product functions / management, configuration, engineering	ng
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◆ BOOTP	Yes Yes
• BOOTP • 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 designation	Yes
product functions / diagnostics	
product function	
port diagnostics	Yes
+ port diagnostics	100

statistics packet type error statistics SysLog Yes SysLog Yes product functions / VLAN product function VLAN - port based VLAN - protocol-based VLAN - Myammic Yes number of VLANs / maximum Z65 number of VLANs / maximum Z65 number of VLANs - Aynamic / maximum Protocol / is supported / SVRP product functions / DHCP product function DHCP Option 82 Yes DHCP Option 82 Pes DHCP Option 66 Yes DHCP Option 67 Yes product functions / redundancy product functions / redundancy Protocol (HRP) Nes Nes Pesed redundancy Protocol (HRP) Nes Nes Pesed redundancy protocol (HRP) with standby redundancy manager Nes Redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function *media redundancy protocol (MRP) with redundancy manager redundancy procedure STP Redundancy procedure RSTP redundancy procedure	 statistics packet type error statistics SysLog	v.
	error statisticsSysLog	Yes
• SysLog product functions / VLAN product function • VLAN - prot based • VLAN - prot based • VLAN - Port based • VLAN - Port based • VLAN - Postaged • VLAN - Postaged • VLAN - Postaged • VLAN - Postaged • VLAN dynamic number of VLANs - dynamic / maximum 255 protocol / is supported / GVRP product functions / DHCP product function • DHCP client • DHCP Option 82 • DHCP Option 82 • DHCP Option 66 • Pes • DHCP Option 67 Product function • fing redundancy product function • fing redundancy Protocol (HRP) • high Speed Redundancy Protocol (HRP) with redundancy protocot / is supported / Media Redundancy Protocol (HRP) with redundancy protocot / is supported / Media Redundancy Protocol (MRP) protocot / is supported / Media Redundancy Protocol (MRP) product function • media redundancy protocol (MRP) with redundancy protocol / is supported / Media Redundancy Protocol (MRP) protocot / is supported / Media Redundancy Protocol (MRP) protocol / is supported / Media Redundancy Protocol (MRP) protocol / is supported / Media Redundancy Protocol (MRP) protocol / is supported / Media Redundancy Protocol (MRP) **Pes • redundancy procedure RSTP • redundancy procedure RSTP • redundancy procedure MSTP • redundancy procedure MSTP • redundancy procedure MSTP • resundancy procedure MSTP • passive listening **Pes **Protocol / is supported • STP/RSTP • Yes • STP • RSTP big network support • Yes • RSTP • RSTP big network support • Yes • RSTP • RSTP big network support • Yes • RSTP • RSTP big network support • Yes • RSTP • Yes • RSTP • RSTP big network support • Yes	SysLog	
product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN IP-based • VES IP-BASED IP-BASED IP-BASED IP-BASED		
product function VLAN - port based VLAN - protocol-based No VLAN - protocol-based No VLAN - Protocol-based No VLAN - Protocol-based No VLAN dynamic Pes number of VLANs - dynamic / maximum 255 number of VLANs - dynamic / maximum 255 protocol / is supported / GVRP Product function DHCP client DHCP client DHCP Option 82 Pes DHCP Option 66 Pes DHCP Option 67 Product functions / redundancy Product functions / redundancy product function / redundancy Protocol (HRP) with redundancy manager No ing redundancy protocol (HRP) with redundancy manager No ing redundancy Protocol (HRP) with redundancy manager No ing redundancy protocol (MRP) with redundancy manager No ing redundancy protocol (MRP) with redundancy manager No ing redundancy protocol (MRP) with redundancy manager Protocol / is supported / Media Redundancy Protocol Redundancy procedure RSTP Pes Passive listening Protocol / is supported STP/RSTP STP Nes STP Nes STP Nes STP Nes STP Pes STP Pes STP Pes STP Pes STP Nes STP big network support Pes NaTP Pes STP big network support Pes Pes Pes Pes STP big network support Pes Pes Pes Pes STP big network support Pes Pes Pes Pes Pes STP big network support Pes Pes Pes Pes Pes Pes Pes Pe	product tunctions / VI AN	Yes
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product function / DHCP product function		
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product function • media redundancy protocol (MRP) with redundancy manager • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure MSTP • passive listening protocol / is supported • STP/RSTP • STP • RSTP • RSTP • RSTP big network support • LACP	protocol / is supported / Media Redundancy Protocol	Yes
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 passive listening protocol / is supported STP/RSTP STP Yes RSTP MSTP MSTP RSTP big network support LACP Yes Yes Yes Yes Yes Yes Yes Yes Yes 		Yes
protocol / is supported • STP/RSTP • STP • RSTP • MSTP • MSTP • RSTP big network support • LACP Pyes Yes Yes Yes Yes Yes Yes Yes	 redundancy procedure MSTP 	Yes
 STP/RSTP STP RSTP MSTP MSTP RSTP big network support LACP Yes Yes Yes 	passive listening	Yes
 STP RSTP MSTP RSTP big network support LACP Yes Yes Yes 	protocol / is supported	
 RSTP MSTP RSTP big network support LACP Yes Yes Yes 	• STP/RSTP	Yes
 MSTP RSTP big network support LACP Yes Yes Yes 	• STP	Yes
RSTP big network supportLACPYes	• RSTP	Yes
• LACP Yes	• MSTP	Yes
	 RSTP big network support 	
		Yes
product functions / security	product functions / security	
product function		
ACL - MAC-based Yes	product function	Yes
ACL - port/MAC-based Yes		Yes
• IEEE 802.1x (radius) Yes	ACL - MAC-based	Yes
• broadcast/multicast/unicast limiter Yes	ACL - MAC-basedACL - port/MAC-based	
• broadcast blocking Yes	ACL - MAC-basedACL - port/MAC-basedIEEE 802.1x (radius)	Yes
protocol / is supported	 ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking 	
• SSH Yes	ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking protocol / is supported	
product functions / time	ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking protocol / is supported	Yes
product function	ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking protocol / is supported SSH	Yes
SICLOCK support Yes	ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking protocol / is supported SSH product functions / time	Yes
protocol / is supported	ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking protocol / is supported SSH product functions / time product function	Yes Yes
• NTP Yes	ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking protocol / is supported SSH product functions / time product function SICLOCK support	Yes Yes
• SNTP Yes	ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking protocol / is supported SSH product functions / time product function SICLOCK supported	Yes Yes Yes
● IEEE 1588 profile default No	ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking protocol / is supported SSH product functions / time product function SICLOCK support protocol / is supported NTP SNTP	Yes Yes Yes Yes

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 y	
standards, specifications, approvals / CE		
certificate of suitability / CE marking	Yes	
standards, specifications, approvals / hazardous environm	nents	
standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X	
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	
certificate of suitability		
CCC / for hazardous zone according to GB standard	Yes	
standards, specifications, approvals / other		
certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007	
• C-Tick	Yes	
KC approval	Yes	
 railway application in accordance with EN 50155 	No	
standards, specifications, approvals / marine classification	n	
Marine classification association		
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes	
 French marine classification society (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 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	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	Siemens provides products and solutions with industrial security	
	functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)	
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