



SCALANCE X310, managed plus IE switch, 3x 10/100/1000 Mbit/s 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		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 storage		-40 ... +70 °C

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 19-inch installation 35 mm top hat DIN rail mounting - wall mounting - S7-300 rail mounting - S7-1500 rail mounting	When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted. No Yes Yes Yes No
product features, product functions, product components / general	
cascading in the case of a redundant ring / at reconfiguration time of <1~0.3~s	100
cascading in cases of star topology	any (depending only on signal propagation time)
product functions / management, configuration, engineering	
product function - CLI - web-based management - MIB support - TRAPs via email - configuration with STEP 7 - RMON - port mirroring - multiport mirroring - CoS - PROFINET IO diagnosis	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
PROFINET conformity class	B
product function / switch-managed	Yes
protocol / is supported - Telnet - HTTP - HTTPS - TFTP - FTP - BOOTP - GMRP - DCP - LLDP - SNMP v1 - SNMP v2 - SNMP v3 - IGMP (snooping/querier)	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
identification & maintenance function - I&M0 - device-specific information - I&M1 – higher level designation/location designation	Yes Yes
product functions / diagnostics	
product function - port diagnostics - statistics Packet Size - statistics packet type - error statistics - SysLog	Yes Yes Yes Yes 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	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, Division 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 • for interference immunity	EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005
MTBF	40 y
reference code	
• according to IEC 81346-2 • according to IEC 81346-2:2019	KF KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environments	
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 • KC approval • railway application in accordance with EN 50155	Yes Yes No
standards, specifications, approvals / marine classification	
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • DNV GL • Korean Register of Shipping (KRS) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA)	Yes Yes No No Yes Yes Yes No
further information / internet-Links	
Internet-Link	
• to web page: selection aid TIA 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/tia-selection-tool 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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