

SCALANCE XR322-12; managed layer 2; IE switch, 19" rack; 20x 100/1000 Mbps RJ45 port; 2x 1G/2.5G/5G/10 Gbps RJ45 port, 4x 100M/1G SFP port; 8x 1G/10G SFP+ port; LED diagnostics; error signaling contact; select/set button; PROFINET IO device; network management; integrated redundancy manager; office features (RSTP, VLAN, IGMP,...); CLP included in scope of supply; power supply 24 V DC;



product type designation	
product brand name	SCALANCE
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 2.5 Gbit/s, 5 Gbit/s, 10 Gbit/s
interfaces / for communication / integrated	
number of electrical connections	
• for network components or terminal equipment	22; RJ45
number of 10/100/1000 Mbit/s RJ45 ports	
• with securing collar	22
number of 1000/2500/5000/10000 Mbps RJ45 ports / with securing collar	2
number of electrical connections	
• for SFP	4; 100 Mbps and 1000 Mbps SFP usable
• for SFP+	8; 1000 Mbps and 10000 Mbps SFP usable
interfaces / other	
number of electrical connections	
• for operator console	1
• for signaling contact	1
• for power supply	1
type of electrical connection	
• for operator console	USB (2.0 Port, Type B, serial via USB)
• for signaling contact	2-pole terminal block
• for power supply	2 x 2-pin terminal block
design of the removable storage	
• CLP	Yes
operating voltage / of the signaling contacts	
• at AC / rated value	24 V
• 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	72 W
• power loss [W] / at DC / at 24 V / typical	43.2 W
• supply voltage / 1 / rated value	19.2 ... 31.2 V
• consumed current / 1 / maximum	3 A
• consumed current / at DC / at 24 V / typical	1.8 A

• type of electrical connection / 1 / for power supply • product component / 1 / fusing at power supply input • fuse protection type / 1 / at input for supply voltage	2 x 2-pole terminal block Yes F 10 A / 250 V
type of voltage / 2 / of the supply voltage • supply voltage / 2 / rated value • power loss [W] / 2 / rated value • supply voltage / 2 / rated value • consumed current / 2 / maximum • type of electrical connection / 2 / for power supply • fuse protection type / 2 / at input for supply voltage	AC (50 / 60Hz) 24 V 72 W 19.2 ... 30 V 3 A 2 x 2-pole terminal block F 10 A / 250 V
ambient conditions	
ambient temperature / in horizontal mounting position / during operation	-40 ... +60 °C; Starting at -40 °C; The maximum ambient temperature during operation depends on the operating height and the plug-in transceivers, see also manual.
installation altitude / at height above sea level / maximum	4000 m
relative humidity • at 25 °C / without condensation / during operation / maximum	95 %
operating condition / fanless operation	Yes
protection class IP	IP20
design, dimensions and weights	
design	19-inch rack
number of modular height units / relating to 19-inch cabinet	1
width	446 mm
height	43.6 mm
depth	374.8 mm
net weight	8 kg
material / of the enclosure	metal
fastening method • 19-inch installation	Yes
product features, product functions, product components / general	
cascading in the case of a redundant ring / at reconfiguration time of <1~0.31~s	50
cascading in cases of star topology	any (depending only on signal propagation time)
number of automatically learnable MAC addresses	16382
number of QoS queues / per port	8
product function • QoS according to IEEE 802.1Q	Yes
product feature • Store & Forward switching method	Yes
product functions / management, configuration, engineering	
product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • SMTP server • port mirroring • multiport mirroring • Encapsulated Remote Traffic Mirroring (ERTM) • CoS • PROFINET IO diagnosis • switch-managed	Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
PROFINET conformity class	B
network load class / according to PROFINET	3
telegram length / for Ethernet / maximum	9194 byte
protocol / is supported • Telnet • HTTP • HTTPS	Yes Yes Yes

• TFTP • FTP • SFTP • BOOTP • NETCONF • GMRP • DCP • LLDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier)	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 • VLAN - protocol-based • VLAN - IP-based	Yes	
	No	
	No	
number of VLANs / maximum	257	
number of VLANs - dynamic / maximum	257	
number of VLANs / at ring redundancy (HRP; MRP; standby link)	257	
product functions / DHCP		
product function		
• DHCP server • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67	Yes	
	Yes	
	Yes	
	Yes	
	Yes	
product functions / redundancy		
protocol / is supported / Media Redundancy Protocol (MRP)	Yes	
product function		
• media redundancy protocol (MRP) with redundancy manager • Media Redundancy Protocol Interconnection (MRP-I) • of the PROFINET IO device / is supported / H-Sync forwarding • of the PROFINET IO device / is supported / PROFINET system redundancy • ring redundancy • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure RSTP+ • redundancy procedure MSTP • High-availability Seamless Redundancy (HSR) • Parallel Redundancy Protocol (PRP)/operation in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)	Yes	
	Yes	
	Yes	
	Yes	
	Yes	
	Yes	
	Yes	
	Yes	
	Yes	
	Yes	
	Yes	
	Yes	
	Yes	
	Yes	

• passive listening	Yes
protocol / is supported	
• STP/RSTP	Yes
• STP	Yes
• RSTP	Yes
• RSTP big network support	Yes
• LACP	Yes
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	Yes
product functions / security	
product function	
• IEEE 802.1x (radius)	Yes
• broadcast/multicast/unicast limiter	Yes
• broadcast blocking	Yes
protocol / is supported	
• SSH	Yes
• SSL	Yes
product functions / time	
product function	
• SICLOCK support	Yes
• NTP-client	Yes
• SNTP client	Yes
• IEEE 1588 v2 transparent forwarding	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes
• IEEE 1588 profile default	No
accuracy / at IEEE 1588 v2	
• not less than	100 µs
• typical	50 ns
standards, specifications, approvals	
certificate of suitability	
• CE marking	Yes
• UKCA marking	Yes
• EC Declaration of Conformity EN 61010, IEC 61010-1, UL 61010A-1	Yes
• cULus approval	Yes
• KC approval	Yes
• Regulatory Compliance Mark (RCM)	Yes
product conformity / according to EMC-guideline	2014/30/EU
standard	
• for EMC interference emission	EN 61000-6-4
• for immunity to EMC	EN 61000-6-2
standards, specifications, approvals / hazardous environments	
certificate of suitability	
• ATEX	Yes
• UKEX	Yes
• IECEx	Yes
• ULhazloc approval	Yes
• CCC / for hazardous zone according to GB standard	Yes
• FM registration	Yes
standards, specifications, approvals / other	
resistance to air pollution / conformity according to ANSI/ISA-71.04	Yes; G3
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO ₂ eq]	
• total	991.85 kg
• during manufacturing	225.96 kg

- during operation - after end of life	765.04 kg 0.85 kg
product functions / general	
MTBF	10 a
reference temperature / for MTBF determination	40 °C
reference code - according to IEC 81346-2 - according to IEC 81346-2:2019	KF KFE
Warranty period	5 a
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
further information / internet links	
internet link - to website: Selection guide for cables and connectors - to web page: selection aid TIA Selection Tool - to website: Industrial communication - to web page: SiePortal - to website: Image database - to website: CAX-Download-Manager - to website: Industry Online Support	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
security information	
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Approvals / Certificates			
General Product Approval	For use in hazardous locations	Test Certificates	Industrial Communication
 EG-Konf.	 IECEX	 ATEX	CCC-Ex Type Test Certificates/Test Report PROFINET

last modified:

4/15/2025 