

SCALANCE XR302-32; managed layer 2, IE switch, 19" rack; 2x 1G/2.5G/5G/10 Gbps RJ45 port; 24x 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	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	2; RJ45
number of 10/100/1000 Mbit/s RJ45 ports / integrated	
• with securing collar	0
number of 1000/2500/5000/10000 Mbps RJ45 ports / integrated / with securing collar	2
number of electrical connections	
• for SFP	24; 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	2
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
• supply voltage / 1 / rated value	19.2 ... 31.2 V
• consumed current / 1 / maximum	3 A
• type of electrical connection / 1 / for power supply	2 x 2-pole terminal block
• product component / 1 / fusing at power supply input	Yes

• fuse protection type / 1 / at input for supply voltage	F 10 A / 250 V
type of voltage / 2 / of the supply voltage	AC (50 / 60Hz)
• supply voltage / 2 / rated value	24 V
• power loss [W] / 2 / rated value	72 W
• supply voltage / 2 / rated value	19.2 ... 30 V
• consumed current / 2 / maximum	3 A
• type of electrical connection / 2 / for power supply	2 x 2-pole terminal block
• fuse protection type / 2 / at input for supply voltage	F 10 A / 250 V
ambient conditions	
ambient temperature / in horizontal mounting position / during operation	-40 ... +70 °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" 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	Yes
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
• configuration with STEP 7	Yes
• RMON	Yes
• SMTP server	No
• port mirroring	Yes
• multiport mirroring	Yes
• Encapsulated Remote Traffic Mirroring (ERTM)	Yes
• CoS	Yes
• PROFINET IO diagnosis	Yes
PROFINET conformity class	B
network load class / according to PROFINET	3
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	9194 byte
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• SFTP	Yes

• BOOTP	Yes
• NETCONF	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• EtherNet/IP	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
• 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
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	Yes
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	Yes
• DHCP Option 67	Yes
product functions / redundancy	
product function	
• of the PROFINET IO device / is supported / PROFINET system redundancy	Yes
• ring redundancy	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
• Media Redundancy Protocol Interconnection (MRP-I)	Yes
• of the PROFINET IO device / is supported / H-Sync forwarding	Yes
• redundancy procedure STP	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure RSTP+	Yes
• redundancy procedure MSTP	Yes
• High-availability Seamless Redundancy (HSR)	Yes
• Parallel Redundancy Protocol (PRP)/operation in the PRP-network	Yes
• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)	Yes
• passive listening	Yes
protocol / is supported	

• STP/RSTP • STP • RSTP • MSTP • RSTP big network support • LACP	Yes Yes Yes No Yes Yes
product functions / security	
product function	
• IEEE 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking	Yes Yes Yes
protocol / is supported	
• SSH • SSL	Yes Yes
product functions / time	
product function	
• SICLOCK support • NTP-client • SNTP client • IEEE 1588 v2 transparent forwarding	Yes Yes Yes Yes
protocol / is supported	
• NTP • SNTP • IEEE 1588 profile default	Yes Yes No
accuracy / at IEEE 1588 v2	
• not less than • typical	100 µs 50 ns
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	Yes
standards, specifications, approvals	
certificate of suitability / CE marking	Yes
product conformity / according to EMC-guideline	2014/30/EU
standard / for safety / from CSA and UL	in preparation
certificate of suitability	
• KC approval • Regulatory Compliance Mark (RCM)	Yes Yes
standards, specifications, approvals / other	
certificate of suitability	
• RoHS conformity	Yes; 2011/65/EU
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 [CO2 eq]	
• total • during manufacturing • during operation • after end of life	991.85 kg 225.96 kg 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
further information / internet links	
internet link	
• to website: Image database • to website: Industry Online Support	https://www.automation.siemens.com/bilddb https://support.industry.siemens.com
security information	

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