

SCALANCE XR524-8WG; managed IE switch, 19" rack; 24x 10/100/1000 Mbps RJ45 port; 8x 1G/10G SFP+ port; LED diagnostics; select/set button; PROFINET IO device, network management, integrated redundancy manager, office features (RSTP, VLAN, IGMP,...) CPL not included in scope of delivery; power supply 24 V DC; layer 3 integrated; layer 3 integrated;



product type designation	
product brand name	SCALANCE
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10 Gbit/s
interfaces / for communication / integrated	
number of electrical connections	
• for network components or terminal equipment	32
number of 10/100/1000 Mbit/s RJ45 ports	24; RJ45
number of electrical connections	
• for SFP+	8
interfaces / other	
number of electrical connections	
• for operator console	1
• for power supply	2
type of electrical connection	
• for operator console	USB (2.0 Port, Type B, serial via USB)
• for power supply	2 x 2-pin terminal block
design of the removable storage	
• CLP	Yes
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	0 ... 60 °C

installation altitude / at height above sea level / maximum	4000 m
relative humidity at 25 °C / without condensation / during operation / maximum	95 %
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 - port mirroring - multiport mirroring - CoS - PROFINET IO diagnosis - switch-managed	Yes Yes Yes Yes Yes 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 - 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 No 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	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	Yes
• VLAN - IP-based	Yes
• VLAN dynamic	Yes
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 / routing

service / routing / note	IP routing integrated
product function	
• static IP routing	Yes
• static IP routing IPv6	No
• dynamic IP routing	Yes
• dynamic IP routing IPv6	No
protocol / is supported	
• RIPv2	Yes
• RIPnG for IPv6	No
• OSPFv2	Yes
• OSPFv3 for IPv6	No
• VRRP	Yes
• VRRP for IPv6	No

product functions / redundancy

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 / 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
• redundancy procedure STP	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure RSTP+	Yes
• redundancy procedure MSTP	Yes
• passive listening	Yes
protocol / is supported	
• LACP	Yes

system modification during operation

product function / configuration in RUN via CiR/H-CiR	Yes
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product functions / security

product function	
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• 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	Yes Yes
accuracy / at IEEE 1588 v2	
• not less than • typical	100 µs 50 ns
standards, specifications, approvals	
certificate of suitability	
• CE marking • UKCA marking • EC Declaration of Conformity EN 61010, IEC 61010-1, UL 61010A-1 • KC approval • Regulatory Compliance Mark (RCM)	Yes Yes Yes Yes Yes
product conformity / according to EMC-guideline	2014/30/EU
standard	
• for EMC interference emission • for immunity to EMC • for safety / from CSA and UL	EN 61000-6-4, EN 50121-9 EN 61000-6-2, EN 50121-4 in preparation
standards, specifications, approvals / hazardous environments	
certificate of suitability	
• ATEX • UKEX • IECEx • ULhazloc approval • CCC / for hazardous zone according to GB standard • FM registration	Yes Yes Yes Yes Yes Yes
standards, specifications, approvals / other	
certificate of suitability	
• RoHS conformity	Yes
resistance to air pollution / conformity according to ANSI/ISA-71.04	Yes
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
product functions / general	
MTBF	12.6 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	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

- to website: CAX-Download-Manager
- to website: Industry Online Support

<https://www.siemens.com/cax>
<https://support.industry.siemens.com>

security information

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Approvals / Certificates

General Product Approval		For use in hazard- ous locations	Test Certificates
			
Declaration of Con- formity		Type Test Certific- ates/Test Report	

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