

SCALANCE XR524-8WG; managed IE switch, 19" rack; 24x 10/100/1000 Mbps RJ45 port; 8x 1G/10G SFP+ port; no UL/FM approval; 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 • KC approval • Regulatory Compliance Mark (RCM)	Yes Yes Yes Yes
product conformity / according to EMC-guideline	2014/30/EU
standard • for EMC interference emission • for immunity to EMC	EN 61000-6-4, EN 50121-9 EN 61000-6-2, EN 50121-4
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 • 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	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial

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Approvals / Certificates

General Product Approval	Test Certificates
	 Type Test Certificates/Test Report

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