

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 1x 230 V AC; 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 • for power supply	1 1
type of electrical connection • for operator console • for power supply	USB (2.0 Port, Type B, serial via USB) IEC plug C14 AC supply
design of the removable storage • CLP	Yes
supply voltage, current consumption, power loss	
product component / connection for redundant voltage supply	No
type of voltage supply / redundant power supply unit	No
type of voltage / 1 / of the supply voltage • supply voltage / 1 / rated value • power loss [W] / 1 / rated value • supply voltage / 1 / rated value • consumed current / 1 / maximum • 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	DC 100V ... 250V DC 99 W 77 ... 300 V 0.8 A 2-pole terminal block Yes F 4A / 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) 240 V; 100V ... 240V AC 99 W 85 ... 264 V 0.8 A C14, IEC plug F 4A / 250 V
ambient conditions	
ambient temperature / in horizontal mounting position / during operation	0 ... 60 °C

installation altitude / at height above sea level / maximum	3000 m
relative humidity <ul style="list-style-type: none"> 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	8.2 kg
material / of the enclosure	metal
fastening method <ul style="list-style-type: none"> 19-inch installation 	Yes
product features, product functions, product components / general	
cascading in the case of a redundant ring / at reconfiguration time of $\leq 0.3\text{ s}$	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 <ul style="list-style-type: none"> QoS according to IEEE 802.1Q 	Yes
product feature <ul style="list-style-type: none"> Store & Forward switching method 	Yes
product functions / management, configuration, engineering	
product function <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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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<ul style="list-style-type: none"> • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking 	<p>Yes</p> <p>Yes</p> <p>Yes</p>
<p>protocol / is supported</p> <ul style="list-style-type: none"> • SSH • SSL 	<p>Yes</p> <p>Yes</p>
product functions / time	
<p>product function</p> <ul style="list-style-type: none"> • SICLOCK support • NTP-client • SNTP client • IEEE 1588 v2 transparent forwarding 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<p>protocol / is supported</p> <ul style="list-style-type: none"> • NTP • SNTP 	<p>Yes</p> <p>Yes</p>
<p>accuracy / at IEEE 1588 v2</p> <ul style="list-style-type: none"> • not less than • typical 	<p>100 µs</p> <p>50 ns</p>
standards, specifications, approvals	
<p>certificate of suitability</p> <ul style="list-style-type: none"> • CE marking • UKCA marking • KC approval • Regulatory Compliance Mark (RCM) 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<p>product conformity / according to EMC-guideline</p>	<p>2014/30/EU</p>
<p>standard</p> <ul style="list-style-type: none"> • for EMC interference emission • for immunity to EMC 	<p>EN 61000-6-4, EN 50121-9</p> <p>EN 61000-6-2, EN 50121-4</p>
standards, specifications, approvals / other	
<p>certificate of suitability</p> <ul style="list-style-type: none"> • railway application in accordance with EN 50121-4 • railway application in accordance with EN 50125-3 	<p>Yes; use only in areas not accessible to the public</p> <p>Yes; Section 4.2: Class AX (up to 2000m); section 4.3: T1: Containers N.T.C and T.C. / Buildings N.C.C and C.C, T2: Containers N.T.C and T.C. / Buildings N.C.C and C.C, TX: Containers N.T.C and T.C. / Buildings N.C.C and C.C., derating according to the manual must be observed when SFP/SFP+ transceivers are used; section 4.4: T1: Containers C.C. / Buildings N.C.C and C.C., T2: Containers C.C. / Buildings N.C.C and C.C, T3: Containers C.C. / Buildings N.C.C and C.C; section 4.11: C1: Indoor, C2: Indoor (except condensation), C3: Indoor (except condensation), 4B1, 4S10, UL 62368-1, UL 61010-2-10; section 4.13: partially, Test Fc: Vibration EN 60068-2-6; IEC 60068-2-6, Test Ea: Shock EN 60068-2-27; IEC 60068-2-27, Test Ec: Rough handling, shocks EN 60068-2-31; IEC 60068-2-31; section 4.14: yes; section 4.15: yes, according to manual.</p>
<ul style="list-style-type: none"> • RoHS conformity 	<p>Yes</p>
<p>resistance to air pollution / conformity according to ANSI/ISA-71.04</p>	<p>Yes</p>
<p>IT security for industrial automation systems / according to IEC 62443-4-2:2019</p>	<p>Yes</p>
product functions / general	
<p>MTBF</p>	<p>8.3 a</p>
<p>reference temperature / for MTBF determination</p>	<p>40 °C</p>
<p>reference code</p> <ul style="list-style-type: none"> • according to IEC 81346-2 • according to IEC 81346-2:2019 	<p>KF</p> <p>KFE</p>
<p>Warranty period</p>	<p>5 a</p>
<p>product function / is supported / identification link</p>	<p>Yes; acc. to IEC 61406-1:2022</p>
further information / internet links	
<p>internet link</p> <ul style="list-style-type: none"> • 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 	<p>https://support.industry.siemens.com/cs/ww/en/view/109766358</p> <p>https://www.siemens.com/tstcloud</p> <p>https://www.siemens.com/simatic-net</p> <p>https://sieportal.siemens.com/</p> <p>https://www.automation.siemens.com/bilddb</p> <p>https://www.siemens.com/cax</p>

security information

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