

SCALANCE XR524-8C; managed IE switch; Layer 3 integrated; Power supply 2x 230 V AC; 24x 10/100/1000 Mbit/s RJ45; 8x 100/1000 Mbit/s SFP; contains 8 combo ports; in total 24 ports can be used; error signaling contact; select/set pushbutton; PROFINET IO device; redundancy functions; Office features (RSTP, VLAN, IGMP, ...); C-PLUG in scope of supply.



product type designation	SCALANCE XR524-8C
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
interfaces / for communication / maximum configuration for modular devices	
number of electrical ports / maximum	24
number of optical ports / maximum	8
interfaces / for communication / integrated	
number of electrical connections • for network components or terminal equipment	24; RJ45
number of 100 Mbit/s ST(BFOC) ports • for multimode	0
number of electrical connections • for SFP	8
number of combo ports / with RJ45 interface for optical plug-in transceiver	8
interfaces / for communication / plug-in	
number of electrical connections • for SFP	8
interfaces / other	
number of electrical connections • for operator console • for management purposes • for signaling contact • for power supply	1 1 1 1
type of electrical connection • for operator console • for management purposes • for signaling contact • for power supply	RJ11 RJ45 2-pole terminal block 4-pole terminal block
design of the removable storage • C-PLUG/KEY-PLUG	Yes
product feature / hot-swappable interface modules	Yes
signal inputs/outputs	
operating voltage / of the signaling contacts • 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	Yes

type of voltage / 1 / of the supply voltage	AC
• supply voltage / 1 / rated value	230 V
• power loss [W] / 1 / rated value	24 W
• supply voltage / 1 / rated value	90 ... 264 V
• consumed current / 1 / maximum	0.6 A
• type of electrical connection / 1 / for power supply	4-pole terminal block
• product component / 1 / fusing at power supply input	Yes
• fuse protection type / 1 / at input for supply voltage	3.15 A / 250 V

ambient conditions

ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C

relative humidity	
• at 25 °C / without condensation / during operation / maximum	95 %

protection class IP	IP20
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design, dimensions and weights

design	19" rack
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number of modular height units / relating to 19-inch cabinet	1
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width	449 mm
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height	44 mm
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depth	305 mm
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net weight	4.5 kg
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fastening method	
• 19-inch installation	Yes
• 35 mm top hat DIN rail mounting	No
• wall mounting	No
• S7-300 rail mounting	No
• S7-1500 rail mounting	No

type of cable outlet	Cable outlet at front
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product features, product functions, product components / general

cascading in cases of star topology	any (depending only on signal propagation time)
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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
• port mirroring	Yes
• multiport mirroring	Yes
• CoS	Yes
• PROFINET IO diagnosis	Yes

PROFINET conformity class	B
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product function / switch-managed	Yes
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telegram length / for Ethernet / maximum	9216 byte
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protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes

<ul style="list-style-type: none"> IGMP (snooping/querier) 	Yes
identification & maintenance function	
<ul style="list-style-type: none"> I&M0 - device-specific information 	Yes
<ul style="list-style-type: none"> I&M1 - higher level designation/location designation 	Yes
product functions / diagnostics	
product function	
<ul style="list-style-type: none"> port diagnostics 	Yes
<ul style="list-style-type: none"> statistics Packet Size 	Yes
<ul style="list-style-type: none"> statistics packet type 	Yes
<ul style="list-style-type: none"> error statistics 	Yes
<ul style="list-style-type: none"> SysLog 	Yes
product functions / VLAN	
product function	
<ul style="list-style-type: none"> VLAN - port based 	Yes
<ul style="list-style-type: none"> VLAN - protocol-based 	Yes
<ul style="list-style-type: none"> VLAN - IP-based 	Yes
<ul style="list-style-type: none"> VLAN dynamic 	Yes
number of VLANs / maximum	255
number of VLANs - dynamic / maximum	255
protocol / is supported / GVRP	Yes
product functions / DHCP	
product function	
<ul style="list-style-type: none"> DHCP client 	Yes
<ul style="list-style-type: none"> DHCP Option 82 	Yes
<ul style="list-style-type: none"> DHCP Option 66 	Yes
<ul style="list-style-type: none"> DHCP Option 67 	Yes
product functions / routing	
service / routing / note	IP routing integrated
product function	
<ul style="list-style-type: none"> static IP routing 	Yes
<ul style="list-style-type: none"> static IP routing IPv6 	Yes
<ul style="list-style-type: none"> dynamic IP routing 	Yes
<ul style="list-style-type: none"> dynamic IP routing IPv6 	Yes
protocol / is supported	
<ul style="list-style-type: none"> RIPv2 	Yes
<ul style="list-style-type: none"> RIPnG for IPv6 	Yes
<ul style="list-style-type: none"> OSPFv2 	Yes
<ul style="list-style-type: none"> OSPFv3 for IPv6 	Yes
<ul style="list-style-type: none"> VRRP 	Yes
<ul style="list-style-type: none"> VRRP for IPv6 	Yes
product functions / redundancy	
product function	
<ul style="list-style-type: none"> ring redundancy 	Yes
<ul style="list-style-type: none"> High Speed Redundancy Protocol (HRP) 	Yes
<ul style="list-style-type: none"> high speed redundancy protocol (HRP) with redundancy manager 	Yes
<ul style="list-style-type: none"> high speed redundancy protocol (HRP) with standby redundancy 	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul style="list-style-type: none"> media redundancy protocol (MRP) with redundancy manager 	Yes
<ul style="list-style-type: none"> Media Redundancy Protocol Interconnection (MRP-I) 	Yes
<ul style="list-style-type: none"> redundancy procedure STP 	Yes
<ul style="list-style-type: none"> redundancy procedure RSTP 	Yes
<ul style="list-style-type: none"> redundancy procedure RSTP+ 	Yes
<ul style="list-style-type: none"> redundancy procedure MSTP 	Yes
<ul style="list-style-type: none"> passive listening 	Yes
protocol / is supported	
<ul style="list-style-type: none"> LACP 	Yes
product functions / security	




product function	
• ACL - MAC-based	Yes
• ACL - port/MAC-based	Yes
• IEEE 802.1x (radius)	Yes
• broadcast/multicast/unicast limiter	Yes
• broadcast blocking	Yes
protocol / is supported	
• SSH	Yes
product functions / time	
product function	
• SICLOCK support	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes
standards, specifications, approvals	
standard	
• for safety / from CSA and UL	UL 60950-1; CSA C22.2 No. 213-M1987
• for emitted interference	EN 61000-6-4 (Class A)
• for interference immunity	EN 61000-6-2
reference code	
• according to IEC 81346-2	KF
• according to IEC 81346-2:2019	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2, EN 61000-6-4
• C-Tick	Yes
• KC approval	Yes
• E1 approval	No
• E1 approval	No
standards, specifications, approvals / marine classification	
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• French marine classification society (BV)	Yes
• DNV GL	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (NK)	Yes
• Polski Rejestr Statkow (PRS)	Yes
• Royal Institution of Naval Architects (RINA)	Yes
further information / internet links	
internet link	
• to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Selection guide for cables and connectors	https://sie.ag/2QdlxcP
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security 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 security 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 security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity . Siemens' products and solutions

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Approvals / Certificates

General Product Approval	EMC	Declaration of Conformity
Manufacturer Declaration Special Test Certificate	 RCM	Manufacturer Declaration  

Marine / Shipping

 ABS	 BUREAU VERITAS	 LRS	NK / Nippon Kaiji Kyokai	 PRS	 RINA
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Marine / Shipping other Environment

 DNV GL	 KR	PROFINET-Certification	
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