

SCALANCE XR524-8C; managed IE switch; layer 3 with Key-Plug available; Power supply 24 V DC; 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.



<b>product type designation</b>	<b>SCALANCE XR524-8C</b>
<b>transfer rate</b>	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
<b>interfaces / for communication / maximum configuration for modular devices</b>	
number of electrical ports / maximum	24
number of optical ports / maximum	8
<b>interfaces / for communication / integrated</b>	
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
<b>interfaces / for communication / plug-in</b>	
number of electrical connections • for SFP	8
<b>interfaces / other</b>	
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
<b>signal inputs/outputs</b>	
operating voltage / of the signaling contacts • at DC / rated value	24 V
operational current / of the signaling contacts • at DC / maximum	0.1 A
<b>supply voltage, current consumption, power loss</b>	
product component / connection for redundant voltage supply	Yes
type of voltage supply / redundant power supply unit	No

<b>type of voltage / 1 / of the supply voltage</b>	DC
• supply voltage / 1 / rated value	24 V
• power loss [W] / 1 / rated value	24 W
• supply voltage / 1 / rated value	19.2 ... 28.8 V
• consumed current / 1 / maximum	1 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 / 125 V

**ambient conditions**

ambient temperature	
• during operation	-40 ... +70 °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	3.8 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
• multipoint 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"> <li>IGMP (snooping/querier)</li> </ul>	Yes
identification & maintenance function	
<ul style="list-style-type: none"> <li>I&amp;M0 - device-specific information</li> <li>I&amp;M1 - higher level designation/location designation</li> </ul>	Yes Yes
<b>product functions / diagnostics</b>	
product function	
<ul style="list-style-type: none"> <li>port diagnostics</li> <li>statistics Packet Size</li> <li>statistics packet type</li> <li>error statistics</li> <li>SysLog</li> </ul>	Yes Yes Yes Yes Yes
<b>product functions / VLAN</b>	
product function	
<ul style="list-style-type: none"> <li>VLAN - port based</li> <li>VLAN - protocol-based</li> <li>VLAN - IP-based</li> <li>VLAN dynamic</li> </ul>	Yes Yes Yes Yes
number of VLANs / maximum	255
number of VLANs - dynamic / maximum	255
protocol / is supported / GVRP	Yes
<b>product functions / DHCP</b>	
product function	
<ul style="list-style-type: none"> <li>DHCP client</li> <li>DHCP Option 82</li> <li>DHCP Option 66</li> <li>DHCP Option 67</li> </ul>	Yes Yes Yes Yes
<b>product functions / routing</b>	
service / routing / note	IP routing in combination with KEY-PLUG XR-500
product function	
<ul style="list-style-type: none"> <li>static IP routing</li> <li>static IP routing IPv6</li> <li>dynamic IP routing</li> <li>dynamic IP routing IPv6</li> </ul>	Yes Yes Yes Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>RIPv2</li> <li>RIPnG for IPv6</li> <li>OSPFv2</li> <li>OSPFv3 for IPv6</li> <li>VRRP</li> <li>VRRP for IPv6</li> </ul>	Yes Yes Yes Yes Yes Yes
<b>product functions / redundancy</b>	
product function	
<ul style="list-style-type: none"> <li>ring redundancy</li> <li>High Speed Redundancy Protocol (HRP)</li> <li>high speed redundancy protocol (HRP) with redundancy manager</li> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes Yes Yes Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul style="list-style-type: none"> <li>media redundancy protocol (MRP) with redundancy manager</li> <li>Media Redundancy Protocol Interconnection (MRP-I)</li> <li>redundancy procedure STP</li> <li>redundancy procedure RSTP</li> <li>redundancy procedure RSTP+</li> <li>redundancy procedure MSTP</li> <li>passive listening</li> </ul>	Yes Yes Yes Yes Yes Yes Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>LACP</li> </ul>	Yes
<b>product functions / security</b>	

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
<b>product functions / time</b>	
product function	
• SICLOCK support	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes
<b>standards, specifications, approvals</b>	
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
<b>standards, specifications, approvals / CE</b>	
certificate of suitability / CE marking	Yes
<b>standards, specifications, approvals / hazardous environments</b>	
certificate of suitability	
• CCC / for hazardous zone according to GB standard	Yes
• CCC / for hazardous zone according to GB standard / as marking	Ex nA IIC T4 Gc
<b>standards, specifications, approvals / other</b>	
certificate of suitability	EN 61000-6-2, EN 61000-6-4
• C-Tick	Yes
• KC approval	Yes
• E1 approval	No
• E1 approval	No
<b>standards, specifications, approvals / marine classification</b>	
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• French marine classification society (BV)	Yes
• Det Norske Veritas (DNV)	No
• Germanische Lloyd (GL)	No
• 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
<b>further information / internet links</b>	
internet link	
• to web page: selection aid TIA Selection Tool	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly

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**last modified:**

8/11/2023 