

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 / 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

<ul style="list-style-type: none"> <li>• supply voltage / 1 / rated value</li> <li>• power loss [W] / 1 / rated value</li> <li>• supply voltage / 1 / rated value</li> <li>• consumed current / 1 / maximum</li> <li>• type of electrical connection / 1 / for power supply</li> <li>• product component / 1 / fusing at power supply input</li> <li>• fuse protection type / 1 / at input for supply voltage</li> </ul>	24 V 24 W 19.2 ... 28.8 V 1 A 4-pole terminal block Yes 3.15 A / 125 V
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	-40 ... +70 °C -40 ... +85 °C -40 ... +85 °C
relative humidity	
<ul style="list-style-type: none"> <li>• at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
protection class IP	IP20
<b>design, dimensions and weights</b>	
design	19" rack
number of modular height units / relating to 19-inch cabinet	1
width	449 mm
height	44 mm
depth	305 mm
net weight	3.8 kg
fastening method	
<ul style="list-style-type: none"> <li>• 19-inch installation</li> <li>• 35 mm top hat DIN rail mounting</li> <li>• wall mounting</li> <li>• S7-300 rail mounting</li> <li>• S7-1500 rail mounting</li> </ul>	Yes No No No No
type of cable outlet	Cable outlet at front
<b>product features, product functions, product components / general</b>	
cascading in cases of star topology	any (depending only on signal propagation time)
<b>product functions / management, configuration, engineering</b>	
product function	
<ul style="list-style-type: none"> <li>• CLI</li> <li>• web-based management</li> <li>• MIB support</li> <li>• TRAPs via email</li> <li>• configuration with STEP 7</li> <li>• RMON</li> <li>• port mirroring</li> <li>• multiport mirroring</li> <li>• CoS</li> <li>• PROFINET IO diagnosis</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
PROFINET conformity class	B
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	9216 byte
protocol / is supported	
<ul style="list-style-type: none"> <li>• Telnet</li> <li>• HTTP</li> <li>• HTTPS</li> <li>• TFTP</li> <li>• FTP</li> <li>• BOOTP</li> <li>• GMRP</li> <li>• DCP</li> <li>• LLDP</li> <li>• SNMP v1</li> <li>• SNMP v2</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes

<ul style="list-style-type: none"> <li>• SNMP v3</li> </ul>	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> </ul>	Yes
<ul style="list-style-type: none"> <li>• I&amp;M1 – higher level designation/location designation</li> </ul>	Yes

### product functions / diagnostics

product function	
<ul style="list-style-type: none"> <li>• port diagnostics</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• statistics Packet Size</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• statistics packet type</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• error statistics</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SysLog</li> </ul>	Yes

### product functions / VLAN

product function	
<ul style="list-style-type: none"> <li>• VLAN - port based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• VLAN - protocol-based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• VLAN - IP-based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• VLAN dynamic</li> </ul>	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"> <li>• DHCP client</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DHCP Option 82</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DHCP Option 66</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DHCP Option 67</li> </ul>	Yes

### product functions / routing

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> </ul>	Yes
<ul style="list-style-type: none"> <li>• static IP routing IPv6</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• dynamic IP routing</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• dynamic IP routing IPv6</li> </ul>	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>• RIPv2</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• RIPnG for IPv6</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• OSPFv2</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• OSPFv3 for IPv6</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• VRRP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• VRRP for IPv6</li> </ul>	Yes

### product functions / redundancy

product function	
<ul style="list-style-type: none"> <li>• ring redundancy</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	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> </ul>	Yes
<ul style="list-style-type: none"> <li>• Media Redundancy Protocol Interconnection (MRP-I)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• redundancy procedure STP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• redundancy procedure RSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• redundancy procedure RSTP+</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• redundancy procedure MSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• passive listening</li> </ul>	Yes

protocol / is supported	
<ul style="list-style-type: none"> <li>• LACP</li> </ul>	Yes
<b>product functions / security</b>	
product function	
<ul style="list-style-type: none"> <li>• ACL - MAC-based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• ACL - port/MAC-based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.1x (radius)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• broadcast/multicast/unicast limiter</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• broadcast blocking</li> </ul>	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>• SSH</li> </ul>	Yes
<b>product functions / time</b>	
product function	
<ul style="list-style-type: none"> <li>• SICLOCK support</li> </ul>	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>• NTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNTP</li> </ul>	Yes
<b>standards, specifications, approvals</b>	
standard	
<ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul>	in preparation
<ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>	EN 61000-6-4 (Class A)
<ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>	EN 61000-6-2
reference code	
<ul style="list-style-type: none"> <li>• according to IEC 81346-2</li> </ul>	KF
<ul style="list-style-type: none"> <li>• according to IEC 81346-2:2019</li> </ul>	KFE
<b>standards, specifications, approvals / CE</b>	
certificate of suitability / CE marking	Yes
<b>standards, specifications, approvals / hazardous environments</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• CCC / for hazardous zone according to GB standard</li> </ul>	Yes
<b>standards, specifications, approvals / other</b>	
certificate of suitability	EN 61000-6-2, EN 61000-6-4
<ul style="list-style-type: none"> <li>• C-Tick</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• KC approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• E1 approval</li> </ul>	No
<ul style="list-style-type: none"> <li>• E1 approval</li> </ul>	No
<b>standards, specifications, approvals / marine classification</b>	
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• French marine classification society (BV)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Det Norske Veritas (DNV)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Germanische Lloyd (GL)</li> </ul>	No
<ul style="list-style-type: none"> <li>• DNV GL</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Korean Register of Shipping (KRS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Nippon Kaiji Kyokai (NK)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Royal Institution of Naval Architects (RINA)</li> </ul>	Yes
<b>further information / internet-Links</b>	
Internet-Link	
<ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> </ul>	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>
<ul style="list-style-type: none"> <li>• to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>• to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>• to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• to website: CAx-Download-Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>• to website: Industry Online Support</li> </ul>	<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

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**last modified:**

7/8/2022 