

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 in total 24 ports can be used; error signaling contact; Select/set button; PROFINET IO Device; redundancy functions; Office features (RSTP, VLAN, IGMP, ...); C-plug in scope of delivery



### Transmission rate

Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
---------------	------------------------------------

### Interfaces / for communication / integrated

Number of electrical connections	24; RJ45
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>	
Number of 100 Mbit/s ST(BFOC) ports	0
<ul style="list-style-type: none"> <li>for multimode</li> </ul>	
Number of electrical connections	8
<ul style="list-style-type: none"> <li>for SFP</li> </ul>	
Number of combo ports / with RJ45 interface for optical plug-in transceiver	8

### Interfaces / for communication / pluggable / maximum

Number of electrical connections	8
<ul style="list-style-type: none"> <li>for SFP</li> </ul>	

### Interfaces / others

Number of electrical connections	1
<ul style="list-style-type: none"> <li>for operator console</li> </ul>	
<ul style="list-style-type: none"> <li>for management purposes</li> </ul>	

• for signaling contact	1
• for power supply	1
• for redundant voltage supply	1
Type of electrical connection	
• for operator console	RJ11
• for management purposes	RJ45
• for signaling contact	2-pole terminal block
• for power supply	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
Operating current / of the signaling contacts	
• at DC / maximum	0.1 A

### Supply voltage, current consumption, power loss

Type of voltage supply / redundant power supply unit	No
Type of voltage / of the supply voltage	DC
Supply voltage	
• external	24 V
• external / minimum	19.2 V
• external / maximum	28.8 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	3.15 A / 125 V
Consumed current / maximum	1 A

### Permitted 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

### Design, dimensions and weight

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
Mounting type	
<ul style="list-style-type: none"> <li>• 19-inch installation</li> <li>• 35 mm DIN rail mounting</li> <li>• wall mounting</li> <li>• S7-300 rail mounting</li> <li>• S7-1500 rail mounting</li> </ul>	<p>Yes</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
Type of cable outlet	Cable outlet at front

**Product properties, functions, components / general**

Cascading in cases of star topology	any (depending only on signal propagation time)
-------------------------------------	---

**Product functions / management, configuration**

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> <li>• switch-managed</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
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> <li>• SNMP v3</li> <li>• IGMP (snooping/querier)</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
Identification & maintenance function	
<ul style="list-style-type: none"> <li>• I&amp;M0 - device-specific information</li> </ul>	<p>Yes</p>

- I&M1 – higher-level designation/location designation

Yes

### Product functions / Diagnosis

#### Product function

- Port diagnostics
- Statistics Packet Size
- Statistics packet type
- Error statistics
- SysLog

Yes

Yes

Yes

Yes

Yes

### Product functions / VLAN

#### Product function

- VLAN - port based
- VLAN - protocol-based
- VLAN - IP-based
- VLAN dynamic

Yes

Yes

Yes

Yes

Number of VLANs / maximum

255

Number of VLANs - dynamic / maximum

255

Protocol / is supported / GVRP

Yes

### Product functions / DHCP

#### Product function

- DHCP client
- DHCP Option 82
- DHCP Option 66
- DHCP Option 67

Yes

Yes

Yes

Yes

### Product functions / Routing

#### Product function

- Static IP routing
- Static IP routing IPv6
- dynamic IP routing
- dynamic IP routing IPv6

Yes

Yes

Yes

Yes

Protocol / is supported

- RIPv2
- RIPv6 for IPv6
- OSPFv2
- OSPFv3 for IPv6
- VRRP
- VRRP for IPv6

Yes

Yes

Yes

Yes

Yes

Yes

### Product functions / Redundancy

#### Product function

- Ring redundancy

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>• 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 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

### Product functions / Security

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

### Product functions / Time

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

### Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul>	available soon
<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

### Standards, specifications, approvals / CE

Certificate of suitability / CE marking	Yes
---	-----

### Standards, specifications, approvals / miscellaneous

Certificate of suitability	EN 61000-6-2, EN 61000-6-4
<ul style="list-style-type: none"> <li>• C-Tick</li> </ul>	Yes

- |               |     |
|---------------|-----|
| • E1 approval | No  |
| • e1 approval | No  |
| • KC approval | Yes |

### Standards, specifications, approvals / ship classification

- |   |     |
|---|-----|
| Marine classification association               |     |
| • American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| • Det Norske Veritas (DNV)                      | No  |
| • Germanische Lloyd (GL)                        | No  |
| • DNV GL  | Yes |
| • Lloyds Register of Shipping (LRS)             | Yes |
| • Nippon Kaiji Kyokai (NK)                      | Yes |
| • Polski Rejestr Statkow (PRS)                  | Yes |
| • Royal Institution of Naval Architects (RINA)  | Yes |

### Accessories

#### Further Information / Internet Links

- |   |   |
|---|---|
| Internet-Link                                     |   |
| • to website: Selector SIMATIC NET SELECTION TOOL | <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</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>             |

### Security information

Security information	<p>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 check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <a href="http://www.siemens.com/industrialsecurity">http://www.siemens.com/industrialsecurity</a>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>. (V3.4)</p>
----------------------	---

last modified:

01/16/2018