

-- spare part -- SCALANCE XR324-4M EEC; managed IE switch, 19 rack; 16x 10/100/1000 Mbps for RJ45 ports electrical; 4x 100/1000 Mbps for 2-port media modules, electrical or optical; LED diagnostics; error signaling contact; select/set button, PROFINET IO device, network management, integrated redundancy manager; power supply 2x 230 V AC; ports at the back.



product type designation	
product brand name	SCALANCE
product type designation	XR324-4M EEC
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
• for network components or terminal equipment	16; RJ45
number of 100 Mbit/s ST(BFOC) ports	
• for multimode	8
number of 100 Mbit/s SC ports	
• for multimode	8
interfaces / other	
number of electrical connections	
• for operator console	1
• for signaling contact	1
• for media module	4
• for power supply	2
type of electrical connection	
• for operator console	RJ11
• for signaling contact	2 x 3-pole terminal block
• for power supply	2 x 3-pole terminal block
design of the removable storage	
• C-PLUG	Yes
operating voltage / of the signaling contacts	
• at AC / rated value	276 V
• at DC / rated value	230 V
operational current / of the signaling contacts	
• at AC / maximum	5 A
• at DC / maximum	0.1 A
supply voltage, current consumption, power loss	
type of voltage supply / redundant power supply unit	Yes
<b>type of voltage / 1 / of the supply voltage</b>	AC
• supply voltage / 1 / rated value	230 V
• power loss [W] / 1 / rated value	42 W
• supply voltage / 1 / rated value	80 ... 276 V
• consumed current / 1 / maximum	0.7 A
• type of electrical connection / 1 / for power supply	2 x 3-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

<b>type of voltage / 2 / of the supply voltage</b>	DC
<ul style="list-style-type: none"> <li>• power loss [W] / 2 / rated value</li> </ul>	42 W
<ul style="list-style-type: none"> <li>• consumed current / 2 / at rated supply voltage / maximum</li> </ul>	0.7 A
<ul style="list-style-type: none"> <li>• supply voltage / 2 / rated value</li> </ul>	60 ... 250 V
<ul style="list-style-type: none"> <li>• type of electrical connection / 2 / for power supply</li> </ul>	2 x 3-pole terminal block
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +85 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-40 ... +85 °C
<ul style="list-style-type: none"> <li>• note</li> </ul>	Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °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-inch rack
number of modular height units / relating to 19-inch cabinet	1
width	483 mm
height	44 mm
depth	305 mm
net weight	7 kg
fastening method	When used in shipbuilding, the device must be secured in the 19" rack at four points
<ul style="list-style-type: none"> <li>• 19-inch installation</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• 35 mm top hat DIN rail mounting</li> </ul>	No
<ul style="list-style-type: none"> <li>• wall mounting</li> </ul>	No
<ul style="list-style-type: none"> <li>• S7-300 rail mounting</li> </ul>	No
<ul style="list-style-type: none"> <li>• S7-1500 rail mounting</li> </ul>	No
<b>product features, product functions, product components / general</b>	
cascading in the case of a redundant ring / at reconfiguration time of <math>\leq 0.3</math>-s	100
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> </ul>	Yes
<ul style="list-style-type: none"> <li>• web-based management</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• MIB support</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• TRAPs via email</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• configuration with STEP 7</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• RMON</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• port mirroring</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• multiport mirroring</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• CoS</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• PROFINET IO diagnosis</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• switch-managed</li> </ul>	Yes
PROFINET conformity class	B
protocol / is supported	
<ul style="list-style-type: none"> <li>• Telnet</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• HTTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• HTTPS</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• TFTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• FTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• BOOTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• GMRP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DCP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• LLDP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNMP v1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNMP v2</li> </ul>	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> <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 No No Yes
number of VLANs / maximum	255
number of VLANs - dynamic / maximum	255
<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 / redundancy</b>	
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>ring redundancy</li> <li>high speed redundancy protocol (HRP) with redundancy manager</li> <li>high speed redundancy protocol (HRP) with standby redundancy</li> <li>redundancy procedure STP</li> <li>redundancy procedure RSTP</li> <li>redundancy procedure MSTP</li> <li>passive listening</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>STP/RSTP</li> <li>STP</li> <li>RSTP</li> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</li> </ul>	Yes Yes Yes Yes Yes Yes
<b>product functions / security</b>	
product function	
<ul style="list-style-type: none"> <li>IEEE 802.1x (radius)</li> <li>broadcast/multicast/unicast limiter</li> <li>broadcast blocking</li> </ul>	Yes Yes 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> <li>SNTP</li> <li>IEEE 1588 profile default</li> </ul>	Yes Yes Yes
<b>standards, specifications, approvals</b>	

certificate of suitability	
<ul style="list-style-type: none"> <li>• CE marking</li> <li>• KC approval</li> </ul>	Yes
standard	
<ul style="list-style-type: none"> <li>• for EMC</li> <li>• for safety / from CSA and UL</li> </ul>	IEC 61850, IEEE 1613 UL 508, CSA C22.2 No. 142-M1987

**standards, specifications, approvals / other**

certificate of suitability	
<ul style="list-style-type: none"> <li>• IEC 61850-3</li> </ul>	Yes

**standards, specifications, approvals / marine classification**

Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> <li>• French marine classification society (BV)</li> <li>• Det Norske Veritas (DNV)</li> <li>• DNV GL</li> <li>• Lloyds Register of Shipping (LRS)</li> <li>• Nippon Kaiji Kyokai (NK)</li> <li>• Polski Rejestr Statkow (PRS)</li> <li>• Royal Institution of Naval Architects (RINA)</li> </ul>	Yes Yes No Yes Yes Yes No Yes

**product functions / general**

MTBF	20 a
reference code	
<ul style="list-style-type: none"> <li>• according to IEC 81346-2</li> <li>• according to IEC 81346-2:2019</li> </ul>	KF KFE

**further information / internet links**


internet link	
<ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to website: Image database</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>


**security information**

security information	Siemens provides products and solutions with industrial cybersecurity 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 cybersecurity 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 cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)
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**Approvals / Certificates**

**General Product Approval**

[Manufacturer Declaration](#)


[Declaration of Conformity](#)



General Product Approval	EMV	Marine / Shipping
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[KC](#)



Marine / Shipping

Environment



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Industrial Communication

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