

SCALANCE XR324-4M EEC; Managed IE switch, 19" rack; 16x 10/100/1000 Mbit/s for RJ45 ports electrical; 4x 100/1000 Mbit/s for 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; Select/set pushbutton, PROFINET IO device, network management, Integrated redundancy manager; Power supply 1x 230 V AC; Ports in the front



Figure similar

<b>Product type designation</b>	<b>SCALANCE XR324-4M EEC</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	16; RJ45
Number of 100 Mbit/s ST(BFOC) ports	
• for multimode	8
Number of 100 Mbit/s SC ports	
• for multimode	8
Number of 1000 Mbit/s LC ports	
• for multimode	8
• for single mode (LD)	8
<b>Interfaces / other</b>	
Number of electrical connections	
• for operator console	1

<ul style="list-style-type: none"> <li>• for signaling contact</li> </ul>	1
<ul style="list-style-type: none"> <li>• for media module</li> </ul>	4
<ul style="list-style-type: none"> <li>• for power supply</li> </ul>	1
<ul style="list-style-type: none"> <li>• for redundant voltage supply</li> </ul>	0
Type of electrical connection	
<ul style="list-style-type: none"> <li>• for operator console</li> </ul>	RJ11
<ul style="list-style-type: none"> <li>• for signaling contact</li> </ul>	3-pole terminal block
<ul style="list-style-type: none"> <li>• for power supply</li> </ul>	3-pole terminal block
design of the removable storage	
<ul style="list-style-type: none"> <li>• C-PLUG</li> </ul>	Yes

### Signal inputs/outputs

Operating voltage / of the signaling contacts	
<ul style="list-style-type: none"> <li>• at AC / Rated value</li> </ul>	276 V
<ul style="list-style-type: none"> <li>• at DC / Rated value</li> </ul>	230 V
Operating current / of the signaling contacts	
<ul style="list-style-type: none"> <li>• at AC / maximum</li> </ul>	5 A
<ul style="list-style-type: none"> <li>• at DC / maximum</li> </ul>	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	AC
Supply voltage	
<ul style="list-style-type: none"> <li>• at AC</li> </ul>	230 V
<ul style="list-style-type: none"> <li>• at AC / rated value</li> </ul>	80 ... 276 V
<b>Supply voltage / 2 / Rated value</b>	
<ul style="list-style-type: none"> <li>• Type of voltage / 2 / of the supply voltage</li> </ul>	DC
Supply voltage / at DC	220 V
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	48 ... 300 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	3.15 A / 250 V
Consumed current / maximum	0.7 A
Power loss [W]	
<ul style="list-style-type: none"> <li>• at AC / at 230 V</li> </ul>	42 W
<ul style="list-style-type: none"> <li>• at DC / at 250 V</li> </ul>	42 W

### Ambient conditions

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

### Design, dimensions and weights

Design	19" rack
Number of modular height units / relating to 19-inch cabinet	1
Width	483 mm
Height	44 mm
Depth	305 mm
Net weight	6.6 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>	When used in shipbuilding, the device must be secured in the 19" rack at four points <ul style="list-style-type: none"> <li>Yes</li> <li>No</li> <li>No</li> <li>No</li> <li>No</li> </ul>

### Product features, product functions, product components / general

Cascading in the case of a redundant ring / at reconfiguration time of <math>\sim 0.3\text{ s}</math>	100
Cascading in cases of star topology	any (depending only on signal propagation time)

### Product functions / management, configuration, engineering

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>	<ul style="list-style-type: none"> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>
PROFINET conformity class	B
Product function / switch-managed	Yes
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
• IGMP (snooping/querier)	Yes
<b>Identification &amp; maintenance function</b>	
• I&M0 - device-specific information	Yes
• I&M1 – higher-level designation/location designation	Yes

### Product functions / Diagnostics

<b>Product function</b>	
• Port diagnostics	Yes
• Statistics Packet Size	Yes
• Statistics packet type	Yes
• Error statistics	Yes
• SysLog	Yes

### Product functions / VLAN

<b>Product function</b>	
• VLAN - port based	Yes
• VLAN - protocol-based	No
• VLAN - IP-based	No
• VLAN dynamic	Yes
Number of VLANs / maximum	255
Number of VLANs - dynamic / maximum	255
Protocol / is supported / GVRP	Yes

### Product functions / DHCP

<b>Product function</b>	
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	Yes
• DHCP Option 67	Yes

### Product functions / redundancy

Product function	
• Ring redundancy	Yes
• High Speed Redundancy Protocol (HRP)	Yes
• high speed redundancy protocol (HRP) with redundancy manager	Yes
• high speed redundancy protocol (HRP) with standby redundancy	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
• media redundancy protocol (MRP) with redundancy manager	Yes
• redundancy procedure STP	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure MSTP	Yes
• Passive listening	Yes
Protocol / is supported	
• STP/RSTP	Yes
• STP	Yes
• RSTP	Yes
• MSTP	Yes
• RSTP big network support	Yes
• 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
• IEEE 1588 profile default	Yes

### Standards, specifications, approvals

Standard	
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<ul style="list-style-type: none"> <li>• for hazardous zone</li> <li>• for safety / from CSA and UL</li> <li>• for hazardous zone / from CSA and UL</li> <li>• for emitted interference</li> <li>• for interference immunity</li> </ul>	<ul style="list-style-type: none"> <li>-</li> <li>UL 508, CSA C22.2 No. 142-M1987</li> <li>No</li> <li>EN 61000-6-4:2007 (Class A)</li> <li>EN 61000-6-2:2005</li> </ul>
MTBF	15 y

### Standards, specifications, approvals / CE

Certificate of suitability / CE marking	Yes
Standard	
<ul style="list-style-type: none"> <li>• for EMC</li> </ul>	IEC 61850, IEEE 1613

### Standards, specifications, approvals / other

Certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
<ul style="list-style-type: none"> <li>• C-Tick</li> <li>• IEC 61850-3</li> <li>• KC approval</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>

### Standards, specifications, approvals / marine classification

Marine classification association	
<ul style="list-style-type: none"> <li>• Bureau Veritas (BV)</li> <li>• Korean Register of Shipping (KRS)</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>Yes</li> </ul>

### Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET SELECTION TOOL</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAx Download Manager</li> <li>• to website: Industry Online Support</li> </ul>	<ul style="list-style-type: none"> <li><a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a></li> <li><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a></li> <li><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></li> <li><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></li> <li><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></li> <li><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></li> <li><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></li> </ul>

### Security information

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