

**Product-type designation**

**SCALANCE XR324-12M**

SCALANCE XR324-12M MANAGED IE SWITCH,  
 19" RACK;  
 POWER SUPPLY 230V AC;  
 PORTS FRONT SIDE;  
 12 X 100/1000MBIT/S F. 2-PORT- MEDIA MODULES,  
 ELEKTRICAL ODER OPTICAL;  
 LED-DIAGNOSTICS;  
 FAULT SIGNAL CONTACT;  
 WITH SELECT/SET BUTTON;  
 PROFINET-IO DEVICE,  
 NETWORK- MANAGEMENT,  
 INTEGRATED REDUNDANCY MANAGER OFFICE  
 FEATURES (RSTP, VLAN, IGMP,..);  
 C-PLUG IN THE SCOPE OF SUPPLY



**Transmission rate**

Transfer rate / 1	10 Mbit/s
Transfer rate / 2	100 Mbit/s
Transfer rate / 3	1000 Mbit/s

**Interfaces**

Number of electrical/optical connections / for network components or terminal equipment / maximum	24
Number of electrical connections	
• for operator console	1
• for signaling contact	1
• for media module	12
• for power supply	1
• for redundant power supply	0
Design of electrical connection	
• for network components and terminal equipment	Dependent on selected media modules
• for operator console	RJ11 port
• for signaling contact	2-pole terminal block
• for power supply	2-pole terminal block
Design of optical interface / for optical waveguide	
• at 100 Mbit/s	Dependent on selected media modules

<ul style="list-style-type: none"> <li>• at 1000 Mbit/s</li> </ul>	Dependent on selected media modules
design of the removable storage / C-PLUG	Yes
<b>Signal-Inputs/outputs</b>	
Operating voltage / of signaling contacts / at DC / rated value	24 V
Operating current / of signaling contacts / at DC / maximum	0.1 A
<b>Supply voltage, current consumption, power loss</b>	
Type of supply voltage / redundant power supply unit	No
Type of / supply voltage	AC
Supply voltage	
<ul style="list-style-type: none"> <li>• external</li> </ul>	230 V
<ul style="list-style-type: none"> <li>• external</li> </ul>	85 ... 264 V
Product component / fusing at power supply input	Yes
Type of fusing / at input for supply voltage	3,15 A / 250 V
Consumed current / maximum	0.8 A
Power loss	
<ul style="list-style-type: none"> <li>• at 230 V / AC</li> </ul>	50 W
<b>Permitted ambient conditions</b>	
Ambient temperature	
<ul style="list-style-type: none"> <li>• during operating</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>• Comment</li> </ul>	Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C). If the device is installed in the vertical position, the maximum operating temperature is reduced to +50 °C.
Relative humidity	
<ul style="list-style-type: none"> <li>• at 25 °C / without condensation / during operating / maximum</li> </ul>	95 %
Ambient condition	
<ul style="list-style-type: none"> <li>• for (standard) operation mode</li> </ul>	Conformal coating, no
Protection class IP	IP20
<b>Design, dimensions and weight</b>	
Design	19" rack
Width	483 mm
Height	44 mm
Depth	305 mm
Net weight	5.9 kg
Mounting type	
<ul style="list-style-type: none"> <li>• 19-inch installation</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• 35 mm 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
Mounting type	When used in shipbuilding, the device must be secured in the 19" rack at four points
<b>Product properties, functions, components / general</b>	
Cascading in the case of a redundant ring / at reconfiguration time of <math>\leq 0.3\text{ s}</math>	50
Cascading in cases of star structuring	Any (depending only on signal propagation time)
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
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>• 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
<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
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
<b>Product functions / Diagnosis</b>	
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

• Statistics packet type	Yes
• Error statistics	Yes
• SysLog	Yes
<b>Product functions / VLAN</b>	
Product function	
• VLAN - port based	Yes
• VLAN dynamic	Yes
Number of VLANs / maximum	255
Number of VLANs - dynamic / maximum	255
Protocol / is supported / GVRP	Yes
<b>Product functions / DHCP</b>	
Product function	
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	Yes
• DHCP Option 67	Yes
<b>Product functions / Redundancy</b>	
Product function	
• Ring redundancy	Yes
• Redundancy manager	Yes
• Standby redundancy	Yes
• High Speed Redundancy Protocol (HRP)	Yes
• Media Redundancy Protocol (MRP)	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
• RSTP big network support	Yes
• LACP	Yes
<b>Product functions / Security</b>	
Product function	
• 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
• MSTP	No
• IEEE 1588 profile default	Yes
<b>Standards, specifications, approvals</b>	
Standard	
• for EMC	
• from FM	No
• for hazardous zone	-
• for safety / of CSA and UL	UL 508, CSA C22.2 No. 142-M1987
• for hazardous area / of CSA and UL	No
• for emitted interference	EN 61000-6-4:2007 (Class A)
• for interference immunity	EN 61000-6-2:2005
Verification of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• CE mark	Yes
• C-Tick	Yes
• KC approval	Yes
• Railway application in accordance with EN 50155	No
<b>Further Information / Internet Links</b>	
Internet-Link	
• to website: Industry Mall	<a href="http://www.siemens.com/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</a>
• 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: Information and Download Center	<a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</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="http://support.automation.siemens.com">http://support.automation.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 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 <http://www.siemens.com/industrialsecurity>.

To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>.  
(V3.4)

## letzte Änderung:

Aug 9, 2014