

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 at the back.



product type designation	
product brand name	SCALANCE
product type designation	XR324-4M EEC
Technical Product Detail Page	https://i.siemens.com/1P6GK5324-4GG10-3JR2
transfer rate	
transfer rate	10, 100, 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	1
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	
product component / connection for redundant voltage supply	Yes
type of voltage supply / redundant power supply unit	No
type of voltage / 1 / of the supply voltage	
• supply voltage / 1 / rated value	230 V
• power loss [W] / 1 / rated value	42 W
• supply voltage / 1 / voltage range	80 ... 276
• consumed current / 1 / maximum	0.7 A
• product component / 1 / fusing at power supply input	Yes
type of voltage / 2 / of the supply voltage	
• power loss [W] / 2 / rated value	42 W
• consumed current / 2 / at rated supply voltage / maximum	0.7 A

<ul style="list-style-type: none"> supply voltage / 2 / voltage range 	60 ... 250
ambient conditions	
ambient temperature <ul style="list-style-type: none"> during operation during storage during transport note 	-40 ... +70 °C -40 ... +85 °C -40 ... +85 °C 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"> at 25 °C / without condensation / during operation / maximum 	95 %
protection class IP	IP20
design, dimensions and weights	
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	6.6 kg
fastening method <ul style="list-style-type: none"> 19-inch installation 35 mm DIN-rail mounting wall mounting S7-300 rail mounting S7-1500 rail mounting 	When used in shipbuilding, the device must be secured in the 19" rack at four points Yes No No No No
product features, product functions, product components / general	
cascading in the case of a redundant ring / at reconfiguration time of $\leq 0.3\text{s}$	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"> CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS PROFINET IO diagnosis switch-managed 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
PROFINET conformity class	B
protocol / is supported <ul style="list-style-type: none"> Telnet HTTP HTTPS TFTP FTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
identification & maintenance function	

<ul style="list-style-type: none"> ● I&M0 - device-specific information 	Yes
<ul style="list-style-type: none"> ● I&M1 - higher level designation/location designation 	Yes
product functions / diagnostics	
product function	
<ul style="list-style-type: none"> ● port diagnostics 	Yes
<ul style="list-style-type: none"> ● statistics Packet Size 	Yes
<ul style="list-style-type: none"> ● statistics packet type 	Yes
<ul style="list-style-type: none"> ● error statistics 	Yes
<ul style="list-style-type: none"> ● SysLog 	Yes
product functions / VLAN	
product function	
<ul style="list-style-type: none"> ● VLAN - port based 	Yes
<ul style="list-style-type: none"> ● VLAN - protocol-based 	No
<ul style="list-style-type: none"> ● VLAN - IP-based 	No
<ul style="list-style-type: none"> ● VLAN dynamic 	Yes
number of VLANs / maximum	255
number of VLANs - dynamic / maximum	255
product functions / DHCP	
product function	
<ul style="list-style-type: none"> ● DHCP client 	Yes
<ul style="list-style-type: none"> ● DHCP Option 82 	Yes
<ul style="list-style-type: none"> ● DHCP Option 66 	Yes
<ul style="list-style-type: none"> ● DHCP Option 67 	Yes
product functions / redundancy	
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul style="list-style-type: none"> ● media redundancy protocol (MRP) with redundancy manager 	Yes
<ul style="list-style-type: none"> ● ring redundancy 	Yes
<ul style="list-style-type: none"> ● high speed redundancy protocol (HRP) with redundancy manager 	Yes
<ul style="list-style-type: none"> ● high speed redundancy protocol (HRP) with standby redundancy 	Yes
<ul style="list-style-type: none"> ● redundancy procedure STP 	Yes
<ul style="list-style-type: none"> ● redundancy procedure RSTP 	Yes
<ul style="list-style-type: none"> ● redundancy procedure MSTP 	Yes
<ul style="list-style-type: none"> ● passive listening 	Yes
protocol / is supported	
<ul style="list-style-type: none"> ● STP/RSTP 	Yes
<ul style="list-style-type: none"> ● STP 	Yes
<ul style="list-style-type: none"> ● RSTP 	Yes
<ul style="list-style-type: none"> ● MSTP 	Yes
<ul style="list-style-type: none"> ● RSTP big network support 	Yes
<ul style="list-style-type: none"> ● LACP 	Yes
product functions / security	
product function	
<ul style="list-style-type: none"> ● IEEE 802.1x (radius) 	Yes
<ul style="list-style-type: none"> ● broadcast/multicast/unicast limiter 	Yes
<ul style="list-style-type: none"> ● broadcast blocking 	Yes
protocol / is supported	
<ul style="list-style-type: none"> ● SSH 	Yes
product functions / time	
product function	
<ul style="list-style-type: none"> ● SICLOCK support 	Yes
protocol / is supported	
<ul style="list-style-type: none"> ● NTP 	Yes
<ul style="list-style-type: none"> ● SNTP 	Yes
<ul style="list-style-type: none"> ● IEEE 1588 profile default 	Yes
standards, specifications, approvals	

certificate of suitability	
<ul style="list-style-type: none"> • CE marking • UKCA marking • cULus approval • KC approval • Regulatory Compliance Mark (RCM) 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
standard	
<ul style="list-style-type: none"> • for EMC • for EMC interference emission • for immunity to EMC • for safety / from CSA and UL 	<p>IEC 61850, IEEE 1613</p> <p>EN 61000-6-4:2007 (Class A)</p> <p>EN 61000-6-2:2005</p> <p>UL 508, CSA C22.2 No. 142-M1987</p>
standards, specifications, approvals / other	
certificate of suitability	
<ul style="list-style-type: none"> • IEC 61850-3 • RoHS conformity 	<p>Yes</p> <p>Yes</p>
resistance to air pollution / conformity according to ANSI/ISA-71.04	Yes; G3
standards, specifications, approvals / marine classification	
Marine classification association	
<ul style="list-style-type: none"> • Det Norske Veritas (DNV) • Royal Institution of Naval Architects (RINA) 	<p>No</p> <p>Yes</p>
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> • total • during manufacturing • during operation • after end of life 	<p>601.38 kg</p> <p>207 kg</p> <p>393.45 kg</p> <p>0.93 kg</p>
product functions / general	
MTBF	15 a
warranty period	5 a
further information / internet links	
internet link	
<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to web page: SiePortal • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support 	<p>https://support.industry.siemens.com/cs/ww/en/view/109766358</p> <p>https://www.siemens.com/tstcloud</p> <p>https://www.siemens.com/simatic-net</p> <p>https://sieportal.siemens.com/</p> <p>https://www.automation.siemens.com/bilddb</p> <p>https://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
security information	
security information	<p>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 www.siemens.com/cybersecurity-industry. 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 https://www.siemens.com/cert. (V4.7)</p>
Approvals / Certificates	
General Product Approval	



EG-Konf.

[Declaration of Conformity](#)



[China RoHS](#)



UL

General Product Approval

Test Certificates

Maritime application



RCM

[Type Test Certificates/Test Report](#)



ABS



BUREAU VERITAS



DNV



LRS

Maritime application

Environment

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last modified:

10/30/2025