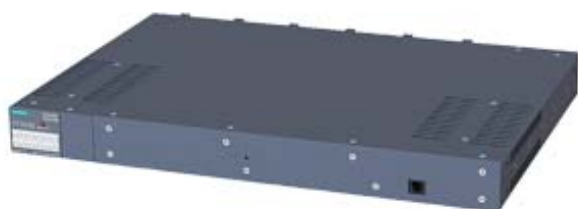


SCALANCE XR324-12M; managed IE switch, 19" rack; 12x 100/1000 Mbit/s 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; Select/set pushbutton, PROFINET IO device, network management, Integrated redundancy manager, office features (RSTP, VLAN, IGMP,...) C-plug in scope of delivery; Power supply 24 V DC; Ports at the back



Product type designation		SCALANCE XR324-12M
Transmission rate		
Transfer rate		10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
Interfaces / for communication / integrated		
Number of 100 Mbit/s ST(BFOC) ports		
• for multimode		24
Number of 100 Mbit/s SC ports		
• for multimode		24
Number of 1000 Mbit/s LC ports		
• for multimode		24
• for single mode (LD)		24
Interfaces / others		
Number of electrical connections		
• for operator console		1
• for signaling contact		1
• for media module		12
• for power supply		1
• for redundant voltage supply		1

Type of electrical connection	• for operator console • for signaling contact • for power supply	RJ11 2-pole terminal block 4-pole terminal block
design of the removable storage	• C-PLUG	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	F 5 A / 125 V	
Consumed current / maximum	1.8 A	
Power loss [W]		
• at DC / at 24 V		44 W

Permitted ambient conditions

Ambient temperature	• during operation • during storage • during transport • Note	-40 ... +70 °C -40 ... +85 °C -40 ... +85 °C 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	• 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	483 mm
(height)	44 mm

Depth	305 mm
(net weight)	5.5 kg
Product feature / conformal coating	No
• (mounting type)	When used in shipbuilding, the device must be secured in the 19" rack at four points
• Mounting type / 19-inch installation	Yes
• Mounting type / 35 mm DIN rail mounting	No
• Mounting type / wall mounting	No
• Mounting type / S7-300 rail mounting	No
• Mounting type / S7-1500 rail mounting	No

Product properties, functions, components / general

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

Product functions / management, configuration

Product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
• Configuration with STEP 7	Yes
• RMON	Yes
• Port mirroring	Yes
• multiport mirroring	Yes
• CoS	Yes
• PROFINET IO diagnosis	Yes
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
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher-level designation/location designation	Yes

Product functions / Diagnosis

Product function	
• Port diagnostics	Yes
• Statistics Packet Size	Yes
• Statistics packet type	Yes
• Error statistics	Yes
• SysLog	Yes

Product functions / VLAN

Product function	
• 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

Product function	
• 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
• Parallel Redundancy Protocol (PRP)/operation in the PRP-network	Yes
• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)	No
• 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	
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1-03
• for hazardous zone / from CSA and UL	UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213-M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4
• for emitted interference	EN 61000-6-4:2007 (Class A)
• for interference immunity	EN 61000-6-2:2005

Standards, specifications, approvals / CE

Certificate of suitability / CE marking	Yes
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Standards, specifications, approvals / miscellaneous

• (certificate of suitability)	EN 61000-6-2:2005, EN 61000-6-4:2007
• Certificate of suitability / C-Tick	Yes
• Certificate of suitability / Railway application in accordance with EN 50155	No
• Certificate of suitability / KC approval	Yes

Standards, specifications, approvals / ship classification

Marine classification association	
• Bureau Veritas (BV)	Yes
• Korean Register of Shipping (KRS)	Yes

Standards, specifications, approvals / product conformity

MTBF	25 y
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Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

Security information

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)
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