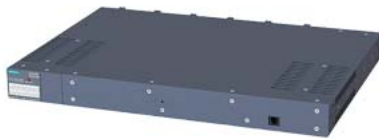


SCALANCE XR324-12M; managed IE switch, 19" rack; 12x 100/1000 Mbit/s 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; Select/set pushbutton, PROFINET IO device, network management, Integrated redundancy manager, office features (RSTP, VLAN, IGMP,...) C-PLUG in scope of supply; Power supply 230 V AC; Ports at the back.



product type designation	SCALANCE XR324-12M
transfer 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 • for single mode (LD)	24 24
interfaces / other	
number of electrical connections • for operator console • for signaling contact • for media module • for power supply	1 1 12 1
type of electrical connection • for operator console • for signaling contact • for power supply	RJ11 2-pole terminal block 2-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
operational 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 / 1 / of the supply voltage • supply voltage / 1 / rated value • power loss [W] / 1 / rated value • supply voltage / 1 / rated value • consumed current / 1 / maximum • type of electrical connection / 1 / for power supply • product component / 1 / fusing at power supply input • fuse protection type / 1 / at input for supply voltage	230 V 50 W 85 ... 264 V 0.8 A 2-pole terminal block Yes 3.15 A / 250 V
ambient conditions	

ambient temperature	
<ul style="list-style-type: none"> during operation during storage during transport note 	<p>-40 ... +70 °C</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p> <p>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.</p>
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" rack
number of modular height units / relating to 19-inch cabinet	1
width	483 mm
height	44 mm
depth	305 mm
net weight	5.9 kg
product feature / conformal coating	Yes
fastening method	When used in shipbuilding, the device must be secured in the 19" rack at four points
<ul style="list-style-type: none"> 19-inch installation 35 mm top hat DIN rail mounting wall mounting S7-300 rail mounting S7-1500 rail mounting 	<p>Yes</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
product features, product functions, product 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, 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 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
PROFINET conformity class	B
product function / switch-managed	Yes
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) 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
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
protocol / is supported / GVRP	Yes
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	
product function	
<ul style="list-style-type: none"> ● ring redundancy 	Yes
<ul style="list-style-type: none"> ● High Speed Redundancy Protocol (HRP) 	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
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"> ● 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"> ● Parallel Redundancy Protocol (PRP)/operation in the PRP-network 	Yes
<ul style="list-style-type: none"> ● Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) 	No
<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"> ● ACL - MAC-based 	Yes
<ul style="list-style-type: none"> ● ACL - port/MAC-based 	Yes
<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	
standard	
<ul style="list-style-type: none"> • for safety / from CSA and UL 	UL 508, CSA C22.2 No. 142-M1987
<ul style="list-style-type: none"> • for emitted interference 	EN 61000-6-4:2007 (Class A)
<ul style="list-style-type: none"> • for interference immunity 	EN 61000-6-2:2005
MTBF	15 y
reference code	
<ul style="list-style-type: none"> • according to IEC 81346-2 	KF
<ul style="list-style-type: none"> • according to IEC 81346-2:2019 	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	-
<ul style="list-style-type: none"> • from CSA and UL 	No
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
<ul style="list-style-type: none"> • C-Tick 	Yes
<ul style="list-style-type: none"> • KC approval 	Yes
<ul style="list-style-type: none"> • railway application in accordance with EN 50155 	No
standards, specifications, approvals / marine classification	
Marine classification association	
<ul style="list-style-type: none"> • French marine classification society (BV) 	Yes
<ul style="list-style-type: none"> • Korean Register of Shipping (KRS) 	Yes
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx-Download-Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • 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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