

***** spare part ***** 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 2x 24 V DC; Ports in the front.



product type designation	SCALANCE XR324-4M EEC
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	16; RJ45
<ul style="list-style-type: none"> for network components or terminal equipment 	
number of 100 Mbit/s ST(BFOC) ports	8
<ul style="list-style-type: none"> for multimode 	
number of 100 Mbit/s SC ports	8
<ul style="list-style-type: none"> for multimode 	
number of 1000 Mbit/s LC ports	8
<ul style="list-style-type: none"> for multimode for single mode (LD) 	8
interfaces / other	
number of electrical connections	1
<ul style="list-style-type: none"> for operator console for signaling contact for media module for power supply 	1 1 4 2
type of electrical connection	RJ11
<ul style="list-style-type: none"> for operator console for signaling contact for power supply 	2 x 2-pole terminal block 2 x 4-pole terminal block
design of the removable storage	Yes
<ul style="list-style-type: none"> C-PLUG 	
signal inputs/outputs	
operating voltage / of the signaling contacts	24 V
<ul style="list-style-type: none"> at DC / rated value 	
operational current / of the signaling contacts	0.1 A
<ul style="list-style-type: none"> at DC / maximum 	
supply voltage, current consumption, power loss	
type of voltage supply / redundant power supply unit	Yes
type of voltage / 1 / of the supply voltage	DC
<ul style="list-style-type: none"> 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 	24 V 40 W 19.2 ... 57.6 V 1.6 A 2 x 4-pole terminal block Yes
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" rack
number of modular height units / relating to 19-inch cabinet	1
width	483 mm
height	44 mm
depth	305 mm
net weight	6.8 kg
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 	Yes No No No No
product features, product functions, product components / general	
cascading in the case of a redundant ring / at reconfiguration time of <~0.3~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 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
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) 	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 • I&M1 - higher level designation/location designation 	Yes Yes
product functions / diagnostics	
product function	
<ul style="list-style-type: none"> • port diagnostics • statistics Packet Size 	Yes Yes

<ul style="list-style-type: none"> • statistics packet type • error statistics • SysLog 	Yes Yes Yes
product functions / VLAN	
product function	
<ul style="list-style-type: none"> • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic 	Yes No No 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 • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 	Yes Yes Yes Yes
product functions / redundancy	
product function	
<ul style="list-style-type: none"> • ring redundancy • High Speed Redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy 	Yes Yes Yes Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul style="list-style-type: none"> • media redundancy protocol (MRP) with redundancy manager • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure MSTP • Parallel Redundancy Protocol (PRP)/operation in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) • passive listening 	Yes Yes Yes Yes Yes No Yes
protocol / is supported	
<ul style="list-style-type: none"> • STP/RSTP • STP • RSTP • MSTP • RSTP big network support • LACP 	Yes Yes Yes Yes Yes Yes
product functions / security	
product function	
<ul style="list-style-type: none"> • ACL - MAC-based • ACL - port/MAC-based • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking 	Yes Yes Yes Yes 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 • SNTP • IEEE 1588 profile default 	Yes Yes Yes
standards, specifications, approvals	

standard	
<ul style="list-style-type: none"> • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity 	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1-03 EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005 20 a
MTBF	
reference code	
<ul style="list-style-type: none"> • according to IEC 81346-2 • according to IEC 81346-2:2019 	KF KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking standard	Yes
<ul style="list-style-type: none"> • for EMC 	IEC 61850, IEEE 1613
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
<ul style="list-style-type: none"> • from CSA and UL 	ANSI / ISA 12.12.01, CSA C22.2 No. 142-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4
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 • KC approval • IEC 61850-3 	Yes Yes Yes
standards, specifications, approvals / marine classification	
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • DNV GL • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA) 	Yes Yes No No Yes Yes Yes No Yes
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAX-Download-Manager • to website: Industry Online Support 	http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
security information	
security information	<p>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)</p>
last modified:	9/17/2022 