

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 230 V AC; 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	
<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	
<ul style="list-style-type: none"> for operator console for signaling contact for power supply 	RJ11 2 x 3-pole terminal block 2 x 3-pole terminal block
design of the removable storage	
<ul style="list-style-type: none"> C-PLUG 	Yes
signal inputs/outputs	
operating voltage / of the signaling contacts	
<ul style="list-style-type: none"> at AC / rated value at DC / rated value 	276 V 230 V
operational current / of the signaling contacts	
<ul style="list-style-type: none"> at AC / maximum at DC / maximum 	5 A 0.1 A
supply voltage, current consumption, power loss	
type of voltage supply / redundant power supply unit	Yes
type of voltage / 1 / of the supply voltage	
<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 	230 V 42 W 80 ... 276 V 0.7 A

<ul style="list-style-type: none"> • 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 	<p>2 x 3-pole terminal block</p> <p>Yes</p> <p>3.15 A / 250 V</p>
<p>type of voltage / 2 / of the supply voltage</p> <ul style="list-style-type: none"> • power loss [W] / 2 / rated value • consumed current / 2 / at rated supply voltage / maximum • supply voltage / 2 / rated value • type of electrical connection / 2 / for power supply • product component / 2 / fusing at power supply input 	<p>DC</p> <p>42 W</p> <p>0.7 A</p> <p>60 ... 250 V</p> <p>2 x 3-pole terminal block</p> <p>Yes</p>
ambient conditions	
<p>ambient temperature</p> <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>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)</p>
<p>relative humidity</p> <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	7 kg
<p>fastening method</p> <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>When used in shipbuilding, the device must be secured in the 19" rack at four points</p> <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	
<p>product function</p> <ul style="list-style-type: none"> • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multipoint 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
<p>protocol / is supported</p> <ul style="list-style-type: none"> • Telnet • HTTP • HTTPS • TFTP • FTP 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>

• 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 / diagnostics	
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
• 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

<ul style="list-style-type: none"> • ACL - port/MAC-based • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
protocol / is supported <ul style="list-style-type: none"> • SSH 	<p>Yes</p>
product functions / time	
product function <ul style="list-style-type: none"> • SICLOCK support 	<p>Yes</p>
protocol / is supported <ul style="list-style-type: none"> • NTP • SNTP • IEEE 1588 profile default 	<p>Yes</p> <p>Yes</p> <p>Yes</p>
standards, specifications, approvals	
standard <ul style="list-style-type: none"> • for safety / from CSA and UL • for emitted interference • for interference immunity 	<p>UL 508, CSA C22.2 No. 142-M1987</p> <p>EN 61000-6-4:2007 (Class A)</p> <p>EN 61000-6-2:2005</p>
MTBF	20 y
reference code <ul style="list-style-type: none"> • according to IEC 81346-2 • according to IEC 81346-2:2019 	<p>KF</p> <p>KFE</p>
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standard <ul style="list-style-type: none"> • for EMC 	IEC 61850, IEEE 1613
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone <ul style="list-style-type: none"> • from CSA and UL 	<p>-</p> <p>No</p>
standards, specifications, approvals / other	
certificate of suitability <ul style="list-style-type: none"> • C-Tick • KC approval • IEC 61850-3 	<p>EN 61000-6-2:2005, EN 61000-6-4:2007</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
standards, specifications, approvals / marine classification	
Marine classification association <ul style="list-style-type: none"> • French marine classification society (BV) • Korean Register of Shipping (KRS) 	<p>Yes</p> <p>Yes</p>
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 	<p>http://www.siemens.com/tia-selection-tool</p> <p>http://www.siemens.com/simatic-net</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
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.</p>

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