

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 24 V DC; Ports in the front.



Figure similar

<b>product type designation</b>	<b>SCALANCE XR324-4M EEC</b>
<b>transfer rate</b>	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
<b>interfaces / for communication / integrated</b>	
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
number of 1000 Mbit/s LC ports • for multimode • for single mode (LD)	8 8
<b>interfaces / other</b>	
number of electrical connections • for operator console • for signaling contact • for media module • for power supply	1 1 4 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
<b>signal inputs/outputs</b>	
operating voltage / of the signaling contacts • at DC / rated value	24 V
operational current / of the signaling contacts • at DC / maximum	0.1 A
<b>supply voltage, current consumption, power loss</b>	
type of voltage supply / redundant power supply unit	No
<b>type of voltage / 1 / of the supply voltage</b> • 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	DC 24 V 40 W 19.2 ... 57.6 V 1.6 A 4-pole terminal block

<ul style="list-style-type: none"> <li>product component / 1 / fusing at power supply input</li> </ul>	Yes
<b>ambient conditions</b>	
ambient temperature <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>note</li> </ul>	-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"> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
protection class IP	IP20
<b>design, dimensions and weights</b>	
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	6.5 kg
fastening method <ul style="list-style-type: none"> <li>19-inch installation</li> <li>35 mm top hat DIN rail mounting</li> <li>wall mounting</li> <li>S7-300 rail mounting</li> <li>S7-1500 rail mounting</li> </ul>	When used in shipbuilding, the device must be secured in the 19" rack at four points Yes No No No No
<b>product features, product functions, product components / general</b>	
cascading in the case of a redundant ring / at reconfiguration time of <math>\leq 0.3\text{ s}</math>	100
cascading in cases of star topology	any (depending only on signal propagation time)
<b>product functions / management, configuration, engineering</b>	
product function <ul style="list-style-type: none"> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> <li>TRAPs via email</li> <li>configuration with STEP 7</li> <li>RMON</li> <li>port mirroring</li> <li>multiport mirroring</li> <li>CoS</li> <li>PROFINET IO diagnosis</li> </ul>	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"> <li>Telnet</li> <li>HTTP</li> <li>HTTPS</li> <li>TFTP</li> <li>FTP</li> <li>BOOTP</li> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>IGMP (snooping/querier)</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
identification & maintenance function	

<ul style="list-style-type: none"> <li>● I&amp;M0 - device-specific information</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● I&amp;M1 – higher level designation/location designation</li> </ul>	Yes
<b>product functions / diagnostics</b>	
product function	
<ul style="list-style-type: none"> <li>● port diagnostics</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● statistics Packet Size</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● statistics packet type</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● error statistics</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● SysLog</li> </ul>	Yes
<b>product functions / VLAN</b>	
product function	
<ul style="list-style-type: none"> <li>● VLAN - port based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● VLAN - protocol-based</li> </ul>	No
<ul style="list-style-type: none"> <li>● VLAN - IP-based</li> </ul>	No
<ul style="list-style-type: none"> <li>● VLAN dynamic</li> </ul>	Yes
number of VLANs / maximum	255
number of VLANs - dynamic / maximum	255
protocol / is supported / GVRP	Yes
<b>product functions / DHCP</b>	
product function	
<ul style="list-style-type: none"> <li>● DHCP client</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● DHCP Option 82</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● DHCP Option 66</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● DHCP Option 67</li> </ul>	Yes
<b>product functions / redundancy</b>	
product function	
<ul style="list-style-type: none"> <li>● ring redundancy</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul style="list-style-type: none"> <li>● media redundancy protocol (MRP) with redundancy manager</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● redundancy procedure STP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● redundancy procedure RSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● redundancy procedure MSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	No
<ul style="list-style-type: none"> <li>● passive listening</li> </ul>	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>● STP/RSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● STP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● RSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● MSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● RSTP big network support</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● LACP</li> </ul>	Yes
<b>product functions / security</b>	
product function	
<ul style="list-style-type: none"> <li>● ACL - MAC-based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● ACL - port/MAC-based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● IEEE 802.1x (radius)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● broadcast/multicast/unicast limiter</li> </ul>	Yes
<ul style="list-style-type: none"> <li>● broadcast blocking</li> </ul>	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>● SSH</li> </ul>	Yes

product functions / time	
product function	
<ul style="list-style-type: none"> <li>• SICLOCK support</li> </ul>	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>• NTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Sntp</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 1588 profile default</li> </ul>	Yes
standards, specifications, approvals	
standard	
<ul style="list-style-type: none"> <li>• for FM</li> </ul>	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
<ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul>	UL 60950-1, CSA C22.2 No. 60950-1-03
<ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>	EN 61000-6-4:2007 (Class A)
<ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>	EN 61000-6-2:2005
MTBF	15 y
reference code	
<ul style="list-style-type: none"> <li>• according to IEC 81346-2</li> </ul>	KF
<ul style="list-style-type: none"> <li>• according to IEC 81346-2:2019</li> </ul>	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standard	
<ul style="list-style-type: none"> <li>• for EMC</li> </ul>	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"> <li>• from CSA and UL</li> </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
certificate of suitability	
<ul style="list-style-type: none"> <li>• CCC / for hazardous zone according to GB standard</li> </ul>	Yes
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
<ul style="list-style-type: none"> <li>• C-Tick</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• KC approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEC 61850-3</li> </ul>	Yes
standards, specifications, approvals / marine classification	
Marine classification association	
<ul style="list-style-type: none"> <li>• Korean Register of Shipping (KRS)</li> </ul>	Yes
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> </ul>	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>
<ul style="list-style-type: none"> <li>• to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>• to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>• to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• to website: CAx-Download-Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
security information	
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