

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 230 V AC; Ports in the front



Figure similar

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 • 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
Interfaces / other	
Number of electrical connections • for operator console	1

• for signaling contact • for media module • for power supply • for redundant voltage supply	1 4 1 0
Type of electrical connection • for operator console • for signaling contact • for power supply	RJ11 3-pole terminal block 3-pole terminal block
design of the removable storage • C-PLUG	Yes

Signal inputs/outputs

Operating voltage / of the signaling contacts • at AC / Rated value • at DC / Rated value	276 V 230 V
Operating current / of the signaling contacts • 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	No
Type of voltage / of the supply voltage	AC
Supply voltage • at AC • at AC / rated value	230 V 80 ... 276 V
Supply voltage / 2 / Rated value • Type of voltage / 2 / of the supply voltage	DC
Supply voltage / at DC • rated value	220 V 48 ... 300 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	3.15 A / 250 V
Consumed current / maximum	0.7 A
Power loss [W] • at AC / at 230 V • at DC / at 250 V	42 W 42 W

Ambient conditions

Ambient temperature • during operation • during storage • during transport	-40 ... +70 °C -40 ... +85 °C -40 ... +85 °C
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Note	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 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	6.6 kg
Mounting type 19-inch installation 35 mm DIN rail mounting - wall mounting - S7-300 rail mounting - S7-1500 rail mounting	When used in shipbuilding, the device must be secured in the 19" rack at four points 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 - 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	

• 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 / 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
• 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	
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- for hazardous zone
- for safety / from CSA and UL
- for hazardous zone / from CSA and UL
- for emitted interference
- for interference immunity

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UL 508, CSA C22.2 No. 142-M1987
No
EN 61000-6-4:2007 (Class A)
EN 61000-6-2:2005

Standards, specifications, approvals / CE

Certificate of suitability / CE marking	Yes
Standard	
• for EMC	IEC 61850, IEEE 1613

Standards, specifications, approvals / other

Certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• C-Tick	Yes
• IEC 61850-3	Yes
• KC approval	Yes

Standards, specifications, approvals / marine classification

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

Standards, specifications, approvals / Product conformity

MTBF	15 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

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