

Product-type designation **SCALANCE XR324-4M EEC**

SCALANCE XR324-4M EEC;
 MANAGED IE SWITCH, 19" RACK,
 POWER SUPPLY WITH 2 X 24V DC PORTS BACK SIDE,
 16 X 10/100/1000MBIT/S RJ45 PORTS ELECTRICAL,
 4 X 100/1000MBIT/S FOR 2-PORT- MEDIA MODULES,
 ELECTRICAL OR OPTICAL, LED DIAGNOSTICS,
 FAULT SIGNAL CONTACT WITH SELECT/SET-BUTTON,
 PROFINET-IO DEVICE,
 NETWORK- MANAGEMENT,
 INTEGRATED REDUNDANCY MANAGER C-PLUG IN
 SCOPE OF SUPPLY



Transmission rate

Transfer rate / 1	10 Mbit/s
Transfer rate / 2	100 Mbit/s
Transfer rate / 3	1000 Mbit/s

Interfaces

Number of electrical/optical connections / for network components or terminal equipment / maximum	24
Number of electrical connections	
• for network components and terminal equipment	16
• for operator console	1
• for signaling contact	1
• for media module	4
• for power supply	2
• for redundant power supply	1
Design of electrical connection	
• for network components and terminal equipment	RJ45 port
• for operator console	RJ11 port
• for signaling contact	2 x 2-pole terminal block
• for power supply	2 x 4-pole terminal block
Design of optical interface / for optical waveguide	

<ul style="list-style-type: none"> • at 100 Mbit/s 	Dependent on selected media modules
<ul style="list-style-type: none"> • at 1000 Mbit/s 	Dependent on selected media modules
design of the removable storage / C-PLUG	Yes
Signal-Inputs/outputs	
Operating voltage / of signaling contacts / at DC / rated value	24 V
Operating current / of signaling contacts / at DC / maximum	0.1 A
Supply voltage, current consumption, power loss	
Type of supply voltage / redundant power supply unit	Yes
Type of / supply voltage	DC
Supply voltage	
<ul style="list-style-type: none"> • external 	24 V
<ul style="list-style-type: none"> • external 	19.2 ... 57.6 V
Type / 2 / of supply voltage	DC
Supply voltage / for DC	24 V
<ul style="list-style-type: none"> • rated value 	19.2 ... 57.6 V
Product component / fusing at power supply input	Yes
Type of fusing / at input for supply voltage	T2H / 250 V
Consumed current / maximum	1.6 A
Power loss	
<ul style="list-style-type: none"> • at 24 V / for DC 	40 W
Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> • during operating 	-40 ... +70 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +85 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +85 °C
<ul style="list-style-type: none"> • Comment 	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 operating / maximum 	95 %
Protection class IP	IP20
Design, dimensions and weight	
Design	19" rack
Width	483 mm
Height	44 mm
Depth	305 mm
Net weight	6.8 kg
Mounting type	
<ul style="list-style-type: none"> • 19-inch installation 	Yes
<ul style="list-style-type: none"> • 35 mm DIN rail mounting 	No

• wall mounting	No
• S7-300 rail mounting	No
Mounting type	When used in shipbuilding, the device must be secured in the 19" rack at four points

Product properties, functions, components / general

Cascading in the case of a redundant ring / at reconfiguration time of $\leq 0.3\text{ s}$	50
Cascading in cases of star structuring	Any (depending only on signal propagation time)
Product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
• Configuration with STEP 7	Yes
• RMON	Yes
• Port mirroring	Yes
• multiport mirroring	Yes
• CoS	Yes
• PROFINET IO diagnosis	Yes
• switch-managed	Yes
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
• IGMP (snooping/querier)	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher level designation/location designation	Yes

Product functions / Diagnosis

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 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
• Redundancy manager	Yes
• Standby redundancy	Yes
• High Speed Redundancy Protocol (HRP)	Yes
• Media Redundancy Protocol (MRP)	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
• RSTP big network support	Yes
• LACP	Yes
Product functions / Security	
Product function	
• 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
• MSTP	No
• IEEE 1588 profile default	Yes
Standards, specifications, approvals	
Standard	
• for EMC	IEC 61850, IEEE 1613
• from FM	FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• for safety / of CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1-03
• for hazardous area / of 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
• for emitted interference	EN 61000-6-4:2007 (Class A)
• for interference immunity	EN 61000-6-2:2005
Verification of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• CE mark	Yes
• C-Tick	Yes
• KC approval	Yes
• IEC 61850-3	Yes
Further Information / Internet Links	
Internet-Link	
• to website: Industry Mall	http://www.siemens.com/industrial-controls/mall
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Information and Download Center	http://www.siemens.com/automation/net/catalog
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	http://support.automation.siemens.com
letzte Änderung:	Aug 6, 2014