

Product-type designation

SCALANCE XR324-12M



SCALANCE XR324-12M MANAGED IE SWITCH,
19" RACK, POWER SUPPLY 24V DC,
PORTS FRONT SIDE,
12 X 100/1000MBIT/S F. 2-PORT- MEDIA MODULES,
ELEKTRICAL ODER OPTICAL,
LED-DIAGNOSTICS,
FAULT SIGNAL CONTACT WITH SELECT/SET BUTTON,
PROFINET-IO DEVICE,
NETWORK- MANAGEMENT,
INTEGRATED REDUNDANCY MANAGER,
OFFICE FEATURES (RSTP, VLAN, IGMP,...);
C-PLUG IN THE 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 operator console	1
• for signaling contact	1
• for media module	12
• for power supply	1
• for redundant power supply	1
Design of electrical connection	
• for network components and terminal equipment	Dependent on selected media modules
• for operator console	RJ11 port
• for signaling contact	2-pole terminal block
• for power supply	4-pole terminal block
Design of optical interface / for optical waveguide	
• at 100 Mbit/s	Dependent on selected media modules

• at 1000 Mbit/s	Dependent on selected media modules
design of the removable storage / C-PLUG	Yes
Signal-Inputs/outputs	
operating voltage / of the signal contact	
• 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	No
Type of / supply voltage	DC
Supply voltage / external	24 V
• minimum	19.2 V
• maximum	28.8 V
Product component / fusing at power supply input	Yes
Type of fusing / at input for supply voltage	F 5 A / 125 V
Consumed current / maximum	1.8 A
Active power loss / at 24 V / for DC	44 W
Permitted ambient conditions	
Ambient temperature	
• during operating	-40 ... +70 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
• Comment	Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C). If the device is installed in the vertical position, the maximum operating temperature is reduced to +50 °C.
Relative humidity	
• at 25 °C / without condensation / during operating / maximum	95 %
Ambient condition / for (standard) operation mode	Conformal coating, no
Coating	Conformal Coating, no
Protection class IP	IP20
Design, dimensions and weight	
Design	19" rack
number of height rack units / related to 19 inch cabinet	1
Width	483 mm
Height	44 mm
Depth	305 mm
Net weight	5.5 kg

Mounting type	
• 19-inch installation	Yes
• 35 mm DIN rail mounting	No
• wall mounting	No
• S7-300 rail mounting	No
• S7-1500 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 <~0.3~s	50
Cascading in cases of star structuring	Any (depending only on signal propagation time)
Product functions / management, configuration	
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
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• IGMP (snooping/querier)	Yes
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher level designation/location designation	Yes
Protocol / is supported	

• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	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 - 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
• Media Redundancy Protocol (MRP)	Yes
• 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	No
• 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	
• for 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	UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213 -M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group 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
• Railway application in accordance with EN 50155	No
MTBF / at 40 °C	25 a
MTBF	25 a
Further Information / Internet Links	
Internet-Link	

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>
<http://www.siemens.com/simatic-net>
<http://www.siemens.com/automation/net/catalog>
<http://automation.siemens.com/bilddb>
<http://www.siemens.com/cax>
<http://support.automation.siemens.com>

Security information

Security information

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)

letzte Änderung:

Sep 20, 2014