

Product-type designation

SCALANCE XR552-12M



SCALANCE XR552-12M;
MANAGED IE SWITCH;
LAYER 3 INTEGRATED;
19" RACK;
PORTS FRONT SIDE;
4 X 1000/10000MBIT/S SFP PLUS;
12 X 100/1000MBIT/S 4-PORT- MEDIA MODULE,
ELECTRICAL, ELECTRICAL POE OR OPTICAL;
LED-DIAGNOSTICS;
FAULT SIGNAL CONTACT;
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
Transfer rate / 4	10 Gbit/s

Interfaces

Number of electrical/optical connections / for network components or terminal equipment / maximum	52
Number of electrical connections	
• for SFP+/SFP	4
• for operator console	1
• for management purposes	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 Power-over-Ethernet / for network components or terminal equipment	RJ45 port

• for operator console • for management purposes • for signaling contact • for power supply	RJ11 port RJ45 port 2-pole terminal block 4-pole terminal block
Design of optical interface / for optical waveguide	
• at 100 Mbit/s • at 1000 Mbit/s • at 10 Gbit/s	Dependent on selected media modules Dependent on selected media modules Depending on selected SFP+ plug-in transceiver
design of the removable storage / C-PLUG/KEY-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	DC
Supply voltage / external	24 V
• minimum • maximum	19.2 V 28.8 V
Product component / fusing at power supply input	Yes
Type of fusing / at input for supply voltage	F 15 A / 125 V
Permitted ambient conditions	
Ambient temperature	
• during operating • during storage • during transport	0 ... 60 °C -40 ... +70 °C -40 ... +70 °C
Relative humidity / at 25 °C / without condensation / during operating / maximum	95 %
Protection class IP	IP20
Design, dimensions and weight	
Design	19" rack
Width	449 mm
Height	130.8 mm
Depth	305 mm
Net weight	10 kg
Mounting type / 19-inch installation	Yes
Type of cable outlet	Cable outlet at front
Product properties, functions, components / general	
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
• 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 - protocol-based	Yes
• VLAN - IP-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 / Routing	
Product function	
• static IP routing	Yes
• static IP routing IPv6	No
• dynamic IP routing	Yes
• dynamic IP routing IPv6	No
Protocol / is supported	
• RIPv2	Yes
• RIPv2 for IPv6	No
• OSPFv2	Yes
• OSPFv3 for IPv6	No
• VRRP	Yes
• VRRP for IPv6	No
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	
• 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
Type of time synchronization	IEEE 1588 available soon
Standards, specifications, approvals	
Standard	
• for EMC / from FM	FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
• for safety / of CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1-03
• for emitted interference	EN 61000-6-4 (Class A)
• for interference immunity	EN 61000-6-2
Verification of suitability	EN 61000-6-2, EN 61000-6-4
• CE mark	Yes
• C-Tick	Yes
• KC approval	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
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