

Product type designation

SCALANCE XR552-12M

SCALANCE XR552-12M; MANAGED IE SWITCH; LAYER 3 PREPARED; 19" RACK, PORTS FRONT SIDE 4 X 1000/10000MBIT/S SFP PLUS; 12 X 100/1000MBIT/S 4-PORT-MEDIA MODULES, 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 SCOPE OF SUPPLY



Transmission rate

Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10 Gbit/s
---------------	---

Interfaces / for communication / integrated

Number of electrical connections	12
<ul style="list-style-type: none"> for Power-over-Ethernet / for network components or terminal equipment 	

Number of electrical connections	4
<ul style="list-style-type: none"> for SFP+ 	

Interfaces / for communication / pluggable / maximum

Number of 100 Mbit/s ST(BFOC) ports	48
<ul style="list-style-type: none"> for multimode for single mode (LD) 	

Number of 1000 Mbit/s SC ports	48
<ul style="list-style-type: none"> for multimode for single mode (LD) 	

Number of electrical connections	4
<ul style="list-style-type: none"> for SFP 	

- for SFP+

4

Interfaces / others

Number of electrical connections	
<ul style="list-style-type: none"> • for operator console 	1
<ul style="list-style-type: none"> • for management purposes 	1
<ul style="list-style-type: none"> • for signaling contact 	1
<ul style="list-style-type: none"> • for media module 	12
<ul style="list-style-type: none"> • for power supply 	1
<ul style="list-style-type: none"> • for redundant voltage supply 	1
Type of electrical connection	
<ul style="list-style-type: none"> • for operator console 	RJ11 port
<ul style="list-style-type: none"> • for management purposes 	RJ45 port
<ul style="list-style-type: none"> • for signaling contact 	2-pole terminal block
<ul style="list-style-type: none"> • for power supply 	4-pole terminal block
design of the removable storage	
<ul style="list-style-type: none"> • C-PLUG/KEY-PLUG 	Yes
Product feature / hot-swappable interface modules	Yes

Signal-Inputs/outputs

Operating voltage / of the signaling contacts	
<ul style="list-style-type: none"> • at DC / Rated value 	24 V
Operating current / of the signaling contacts	
<ul style="list-style-type: none"> • at DC / maximum 	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	DC
Supply voltage	
<ul style="list-style-type: none"> • external 	24 V
<ul style="list-style-type: none"> • external 	19.2 ... 28.8 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	F 15 A / 125 V
Consumed current / maximum	12.5 A
Supplied active power / of PSE / with PoE	
<ul style="list-style-type: none"> • per port / maximum 	30 W
<ul style="list-style-type: none"> • total / maximum 	180 W

Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation 	0 ... 60 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °C
<ul style="list-style-type: none"> • Note 	Operation with integral fan, replaceable

Relative humidity	95 %
<ul style="list-style-type: none"> • at 25 °C / without condensation / during operation / maximum 	
Protection class IP	IP20

Design, dimensions and weight

Design	19" rack
Number of modular height units / relating to 19-inch cabinet	3
Width	449 mm
Height	130.8 mm
Depth	305 mm
Net weight	10 kg
Mounting type	
<ul style="list-style-type: none"> • 19-inch installation • 35 mm DIN rail mounting • wall mounting • S7-300 rail mounting • S7-1500 rail mounting 	<ul style="list-style-type: none"> Yes No No No No
Type of cable outlet	Cable outlet at front

Product properties, functions, components / general

Cascading in cases of star topology	any (depending only on signal propagation time)
-------------------------------------	---

Product functions / management, configuration

Product function	
<ul style="list-style-type: none"> • CLI • web-based management • MIB support • TRAPs via email • Configuration with STEP 7 • RMON • Port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis • switch-managed 	<ul style="list-style-type: none"> Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Telegram length / for Ethernet / maximum	9216 byte
Protocol / is supported	
<ul style="list-style-type: none"> • Telnet • HTTP • HTTPS • TFTP • FTP 	<ul style="list-style-type: none"> Yes Yes Yes Yes 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	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

Service / Routing / Note	IP routing in combination with KEY-PLUG XR-500, IPv6 available soon
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
• RIPv6	No
• OSPFv2	Yes
• OSPFv3 for IPv6	No
• VRRP	Yes
• VRRP for IPv6	No

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
• Parallel Redundancy Protocol (PRP)/operation in the PRP-network	Yes
• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)	No
• 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	
<ul style="list-style-type: none"> • SICLOCK support 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • NTP • SNTP 	Yes Yes
Type of time synchronization	IEEE 1588 available soon

Standards, specifications, approvals	
Standard	
<ul style="list-style-type: none"> • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity 	FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 EN 60079-0: 2009, EN60079-15: 2010, II 3 G Ex nA IIC T4 Gc, KEMA 07 ATEX 0145 X UL 60950-1, CSA C22.2 No. 60950-1-03 ISA 12.12.01-2012 (Hazardous Location), Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4 EN 61000-6-4 (Class A) EN 61000-6-2
Certificate of suitability / CE marking	Yes
Certificate of suitability	EN 61000-6-2, EN 61000-6-4
<ul style="list-style-type: none"> • C-Tick • E1 approval • E1 approval • KC approval 	Yes No No Yes

Further Information / Internet Links	
Internet-Link	
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication • to website: Industry Mall • 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 https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

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)

last modified:

07/08/2016