

### Product type designation

### SCALANCE XR552-12M

SCALANCE XR552-12M; MANAGED IE SWITCH LAYER3  
 PREPARED 19",RACK DATA CABLE OUTLET BACK 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	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10 Gbit/s
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### Interfaces / for communication / integrated

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

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

### Interfaces / for communication / pluggable / maximum

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

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

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

- for SFP+

4

## Interfaces / others

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

## Signal-Inputs/outputs

Operating voltage / of the signaling contacts	
<ul style="list-style-type: none"> <li>• at DC / Rated value</li> </ul>	24 V
Operating current / of the signaling contacts	
<ul style="list-style-type: none"> <li>• at DC / maximum</li> </ul>	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"> <li>• external</li> </ul>	24 V
<ul style="list-style-type: none"> <li>• external</li> </ul>	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"> <li>• per port / maximum</li> </ul>	30 W
<ul style="list-style-type: none"> <li>• total / maximum</li> </ul>	180 W

## Permitted ambient conditions

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

Relative humidity <ul style="list-style-type: none"> <li>• at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
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"> <li>• 19-inch installation</li> <li>• 35 mm DIN rail mounting</li> <li>• wall mounting</li> <li>• S7-300 rail mounting</li> <li>• S7-1500 rail mounting</li> </ul>	Yes No No No No
Type of cable outlet	Cable outlet at rear

### Product properties, functions, components / general

Cascading in cases of star topology	any (depending only on signal propagation time)
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### Product functions / management, configuration

Product function <ul style="list-style-type: none"> <li>• CLI</li> <li>• web-based management</li> <li>• MIB support</li> <li>• TRAPs via email</li> <li>• Configuration with STEP 7</li> <li>• RMON</li> <li>• Port mirroring</li> <li>• multiport mirroring</li> <li>• CoS</li> <li>• PROFINET IO diagnosis</li> <li>• switch-managed</li> </ul>	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"> <li>• Telnet</li> <li>• HTTP</li> <li>• HTTPS</li> <li>• TFTP</li> <li>• FTP</li> </ul>	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

<ul style="list-style-type: none"> <li>• Static IP routing IPv6</li> </ul>	No
<ul style="list-style-type: none"> <li>• dynamic IP routing</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• dynamic IP routing IPv6</li> </ul>	No
Protocol / is supported	
<ul style="list-style-type: none"> <li>• RIPv2</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• RIPv6</li> </ul>	No
<ul style="list-style-type: none"> <li>• OSPFv2</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• OSPFv3 for IPv6</li> </ul>	No
<ul style="list-style-type: none"> <li>• VRRP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• VRRP for IPv6</li> </ul>	No

### Product functions / Redundancy

Product function	
<ul style="list-style-type: none"> <li>• Ring redundancy</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
<ul style="list-style-type: none"> <li>• media redundancy protocol (MRP) with redundancy manager</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• redundancy procedure STP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• redundancy procedure RSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• redundancy procedure MSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Passive listening</li> </ul>	Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>• LACP</li> </ul>	Yes

### Product functions / Security

Product function	
<ul style="list-style-type: none"> <li>• ACL - MAC-based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• ACL - port/MAC-based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 802.1x (radius)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Broadcast/Multicast/Unicast Limiter</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• broadcast blocking</li> </ul>	Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>• SSH</li> </ul>	Yes

### Product functions / Time

Product function	
<ul style="list-style-type: none"> <li>• SICLOCK support</li> </ul>	Yes

Protocol / is supported	Yes
<ul style="list-style-type: none"> <li>• NTP</li> <li>• SNTP</li> </ul>	Yes
Type of time synchronization	IEEE 1588 available soon

### Standards, specifications, approvals

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

### Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
<ul style="list-style-type: none"> <li>• to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>• to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>• to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• to website: CAx Download Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

### 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)

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