## **SIEMENS**

## **Data sheet**

## 6GK5552-0AR00-2AR2

SCALANCE XR552-12M; managed IE switch; 19" rack; 4x 1000/10000 Mbit/s SFP+; 12x 100/1000 Mbit/s 4-port media modules, electrical, electrical PoE or optical; LED diagnostics; error signaling contact; Select/set pushbutton, PROFINET IO device, network management, integrated redundancy manager; office features (RSTP, VLAN, IGMP, ...); C-plug in scope of delivery Layer 3 integrated; ports in the front.



transfer rate  transfer rate  transfer rate  transfer rate  interfaces / for communication / integrated  number of electrical connections  • for network components or terminal equipment • for Power-over-Ethernet / for network components or terminal equipment number of electrical connections • for sSP+ • for multimode • for single mode (LD)  number of 1000 Mbit/s ST(BFOC) ports • for multimode • for single mode (LD)  number of 1000 Mbit/s SC ports • for single mode (LD)  number of electrical connections • for sSPP • for signaling contact • for meadia module • for management purposes • for indeptinal module • for media module • for media module • for media module • for operator console • for media module • for power supply type of electrical connection • for operator console • for management purposes • for signaling contact • for power supply design of the removable storage • C-PLIG/KEY-PLUG product feature / hot-swappable interface modules • at DC / rated value • poperational current / of the signaling contacts • at DC / rated value • poperational current / of the signaling contacts • at DC / rated value • poperational current / of the signaling contacts • at DC / rated value • poperational current / of the signaling contacts • at DC / rated value • poperational current / of the signaling contacts • at DC / rated value • poperational current / of the signaling contacts • at DC / rated value • poperational current / of the signaling contacts • at DC / rated value • poperational current / of the signaling contacts • at DC / rated value • poperational current / of the signaling contacts • at DC / rated value • poperational current / of the signaling contacts • at DC / rated value • poperational current / of the signaling contacts	product type designation	SCALANCE XR552-12M
Interfaces / for communication / integrated  number of electrical connections  • for network components or terminal equipment • for Power-over-Ethernet / for network components or terminal equipment number of electrical connections • for SFP+  * tinterfaces / for communication / plug-in  number of 1000 Mbit/s ST(BFOC) ports • for multimode • for single mode (LD) * 48  * number of 1000 Mbit/s SC ports • for single mode (LD) * 48  * for single mode (LD) * 48  * for single mode (LD) * 48  * number of electrical connections • for SFP • for SFP+ • for SFP+ • for SFP+  * tinterfaces / other  * number of electrical connections • for operator console • for management purposes • for signaling contact • for media module • for power supply type of electrical connection • for operator console • for signaling contact • for power supply type of electrical connection • for operator console • for signaling contact • for power supply design of the removable storage • C-PLUG/KEY-PLUG product feature / hot-swappable interface modules • at DC / rated value • at DC / rated value operational current / of the signaling contacts • at DC / rated value operational current / of the signaling contacts • at DC / rated value  **CALUS (AV **)  **CALUS (AV **	transfer rate	
number of electrical connections  • for network components or terminal equipment • for Power-over-Ethernet / for network components or terminal equipment number of electrical connections • for SFP+ 4  Interfaces / for communication / plug-in number of 100 Mbit/s ST(BFOC) ports • for single mode (LD) • for SFP • for operator console • for operator console • for singlaing contact • for operator console • for signaling contact • for power supply design of the removable storage • C-PLUG/KEY-PLUG  yes  signal inputs/outputs operating voltage / of the signaling contacts • at DC / rated value operational current / of the signaling contacts	transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10 Gbit/s
• for network components or terminal equipment • for Power-over-Ethernet / for network components or terminal equipment number of electrical connections • for SFP+  **  **  **  **  **  **  **  **  **	interfaces / for communication / integrated	
• for Power-over-Ethernet / for network components or terminal equipment number of electrical connections • for SFP+ 4  Interfaces / for communication / plug-in  number of 100 Mbit/s ST(BFOC) ports • for multimode 48 • for single mode (LD) 48  number of 1000 Mbit/s SC ports • for multimode 48 • for single mode (LD) 48  number of electrical connections • for SFP 4 • for SFP 4 • for SFP 4 • for SFP 4 • for operator console 1 • for management purposes 1 • for management purposes 1 • for media module 12 • for operator console 1 • for operator console RJ11 • for media module 12 • for power supply 1 type of electrical connection • for operator console RJ11 • for management purposes RJ45 • for signaling contact 2-pole terminal block • for power supply 4-pole terminal block	number of electrical connections	
or terminal equipment number of electrical connections • for SFPP	<ul> <li>for network components or terminal equipment</li> </ul>	RJ45
• for SFP+  Interfaces / for communication / plug-in  number of 100 Mbit/s ST(BFOC) ports  • for multimode • for single mode (LD) • for single mode (LD) • for multimode • for single mode (LD) • for SFP • for SFP+ • for SFP+  Interfaces / other  number of electrical connections • for operator console • for operator console • for management purposes • for signaling contact • for media module • for module • for power supply • for operator console • for management purposes • for operator console • for power supply • for power supply • for management purposes • for signaling contact • for management purposes • for signaling contact • for power supply • for management purposes • C-P-LUG/KEY-P-LUG product feature / hot-swappable interface modules  **Signal Inputs/outputs**  operating voltage / of the signaling contacts • at DC / rated value operational current / of the signaling contacts • at DC / rated value operational current / of the signaling contacts		12
Interfaces / for communication / plug-in  number of 100 Mbit/s ST(BFOC) ports  • for multimode • for single mode (LD) • for multimode • for single mode (LD) • for multimode • for single mode (LD) • for single mode (LD) • for SFP • for SFP • for SFP+ • for SFP+ • for operator console • for operator console • for management purposes • for signaling contact • for power supply type of electrical connection • for management purposes • for operator console • for power supply type of electrical connection • for operator console • for management purposes • for power supply type of electrical connection • for operator console • for management purposes RJ15 • for power supply type of electrical connection • for operator console • for management purposes RJ45 • for signaling contact • for management purposes • C-P-LUG/KEY-P-LUG product feature / hot-swappable interface modules • at DC / rated value operational current / of the signaling contacts • at DC / rated value operational current / of the signaling contacts • at DC / rated value operational current / of the signaling contacts	number of electrical connections	
number of 100 Mbit/s ST(BFOC) ports  • for multimode • for single mode (LD) number of 1000 Mbit/s SC ports • for multimode • for single mode (LD) 1 48 number of electrical connections • for SFP • for SFP 1 4 • for SFP 1 4 • for sperator console • for signaling contact • for signaling contact • for signaling contact • for power supply type of electrical connection • for operator console • for management purposes • for signaling contact • for media module • for power supply type of electrical connection • for operator console • for operator console • for signaling contact • for media module • for media module • for power supply type of electrical connection • for operator console • for operator console • Full 1 • for power supply type of electrical connection • for operator console • for signaling contact • for power supply design of the removable storage • C-PLUG/KEY-PLUG product feature / hot-swappable interface modules  **yes  **Ignal inputs/outputs  operating voltage / of the signaling contacts • at DC / rated value operational current / of the signaling contacts	• for SFP+	4
<ul> <li>for multimode</li> <li>for single mode (LD)</li> <li>number of 1000 Mbit/s SC ports</li> <li>for multimode</li> <li>for single mode (LD)</li> <li>48</li> <li>number of electrical connections</li> <li>for SFP</li> <li>for SFP</li> <li>4</li> <li>interfaces / other</li> <li>number of electrical connections</li> <li>for operator console</li> <li>for operator console</li> <li>for signaling contact</li> <li>for signaling contact</li> <li>for power supply</li> <li>type of electrical connection</li> <li>for operator console</li> <li>for power supply</li> <li>type of electrical connection</li> <li>for power supply</li> <li>type of electrical connection</li> <li>for operator console</li> <li>RJ11</li> <li>for operator console</li> <li>for power supply</li> <li>type of electrical connection</li> <li>for power supply</li> <li>defor management purposes</li> <li>for signaling contact</li> <li>power supply</li> <li>design of the removable storage</li> <li>C-PLUG/KEY-PLUG</li> <li>yes</li> <li>signal inputs/outputs</li> <li>operating voltage / of the signaling contacts</li> <li>at DC / rated value</li> <li>operational current / of the signaling contacts</li> </ul>	interfaces / for communication / plug-in	
for single mode (LD)     number of 1000 Mbit/s SC ports         in for multimode	number of 100 Mbit/s ST(BFOC) ports	
number of 1000 Mbit/s SC ports  • for multimode • for single mode (LD)  number of electrical connections • for SFP • for SFP+ • for SFP+ • for SFP+  1  Interfaces / other  number of electrical connections • for operator console • for operator console • for signaling contact • for media module • for media module • for power supply type of electrical connection • for operator console • for operator console • for power supply type of electrical connection • for operator console • for power supply type of electrical connection • for operator console • for management purposes • for signaling contact • for management purposes • for signaling contact • for power supply design of the removable storage • C-P-LUG/KEY-P-LUG product feature / hot-swappable interface modules  **Yes**  **Interface**  **Yes**  **J45**  **Yes**  **J45**  **Yes**  **J45**  **J45*	<ul><li>for multimode</li></ul>	48
for multimode     for single mode (LD)     d8     number of electrical connections     for SFP     d     for SFP+     d     for SFP+     d  interfaces / other  number of electrical connections     for operator console     for operator console     for management purposes     for signaling contact     for media module     for power supply     type of electrical connection     for operator console     for operator console     for power supply     type of electrical connection     for operator console     for signaling contact     for management purposes     for signaling contact     for power supply     design of the removable storage         C-PLUG/KEY-PLUG     product feature / hot-swappable interface modules     yes  signal inputs/outputs  operating voltage / of the signaling contacts     a th DC / rated value     operational current / of the signaling contacts	<ul><li>for single mode (LD)</li></ul>	48
for single mode (LD)     number of electrical connections         if or SFP         if or SFP+         if or SFP+         if or SFP+  Interfaces / other  number of electrical connections         if or operator console         if or operator console         if or management purposes         if or management purposes         if or signaling contact         if or media module         if or power supply         type of electrical connection          if or operator console         if or signaling contact         if or media module         if or power supply         type of electrical connection         if or operator console         if or operator console         if or management purposes         if or signaling contact         if or power supply         design of the removable storage         if or PLUG/KEY-PLUG         yes         product feature / hot-swappable interface modules         ignal inputs/outputs         operating voltage / of the signaling contacts         if at DC / rated value         operational current / of the signaling contacts	number of 1000 Mbit/s SC ports	
number of electrical connections  • for SFP • for SFP+  • for SFP+  1  Interfaces / other  number of electrical connections • for operator console • for management purposes • for signaling contact • for media module • for media module • for operator console • for management purposes • for signaling contact • for power supply  design of the removable storage • C-PLUG/KEY-PLUG  product feature / hot-swappable interface modules  signal inputs/outputs  operating voltage / of the signaling contacts • at DC / rated value  operational current / of the signaling contacts	<ul> <li>for multimode</li> </ul>	48
for SFP     for SFP+     d  interfaces / other  number of electrical connections     for operator console     for management purposes     for signaling contact     for media module     for power supply     type of electrical connection     for operator console     for operator console     for operator console     for operator console     for management purposes     for signaling contact     for power supply     design of the removable storage	<ul><li>for single mode (LD)</li></ul>	48
interfaces / other  number of electrical connections	number of electrical connections	
interfaces / other  number of electrical connections  • for operator console • for management purposes • for signaling contact • for media module • for power supply type of electrical connection • for operator console • for operator console • for operator console • for operator console • for signaling contact • for power supply  • for signaling contact • for power supply design of the removable storage • C-PLUG/KEY-PLUG product feature / hot-swappable interface modules  • at DC / rated value operational current / of the signaling contacts • at DC / rated value operational current / of the signaling contacts	• for SFP	4
number of electrical connections  • for operator console • for management purposes • for signaling contact • for media module • for power supply type of electrical connection • for operator console • for operator console • for signaling contact • for signaling contact • for management purposes • for signaling contact • for power supply design of the removable storage • C-PLUG/KEY-PLUG product feature / hot-swappable interface modules  operating voltage / of the signaling contacts • at DC / rated value operational current / of the signaling contacts	• for SFP+	4
• for operator console     • for management purposes     • for signaling contact     • for media module     • for power supply     type of electrical connection     • for operator console     • for management purposes     • for signaling contact     • for signaling contact     • for power supply     • for power supply     • for signaling contact     • for power supply     design of the removable storage     • C-PLUG/KEY-PLUG     product feature / hot-swappable interface modules  operating voltage / of the signaling contacts     • at DC / rated value     operational current / of the signaling contacts     • at DC / rated value	interfaces / other	
<ul> <li>for management purposes</li> <li>for signaling contact</li> <li>for media module</li> <li>for power supply</li> <li>type of electrical connection</li> <li>for operator console</li> <li>for management purposes</li> <li>for management purposes</li> <li>RJ11</li> <li>for management purposes</li> <li>RJ45</li> <li>for signaling contact</li> <li>for power supply</li> <li>design of the removable storage</li> <li>C-PLUG/KEY-PLUG</li> <li>product feature / hot-swappable interface modules</li> <li>signal inputs/outputs</li> </ul> operating voltage / of the signaling contacts <ul> <li>at DC / rated value</li> <li>operational current / of the signaling contacts</li> </ul> 24 V operational current / of the signaling contacts	number of electrical connections	
for signaling contact         if or media module	<ul> <li>for operator console</li> </ul>	1
• for media module     • for power supply type of electrical connection     • for operator console     • for management purposes     • for signaling contact     • for power supply     • for power supply     design of the removable storage     • C-PLUG/KEY-PLUG     product feature / hot-swappable interface modules  signal inputs/outputs  operating voltage / of the signaling contacts     • at DC / rated value operational current / of the signaling contacts	<ul> <li>for management purposes</li> </ul>	1
for power supply     type of electrical connection         • for operator console         • for management purposes         • for signaling contact         • for power supply         design of the removable storage         • C-PLUG/KEY-PLUG         product feature / hot-swappable interface modules  signal inputs/outputs  operating voltage / of the signaling contacts         • at DC / rated value  operational current / of the signaling contacts	<ul> <li>for signaling contact</li> </ul>	1
type of electrical connection  • for operator console • for management purposes • for signaling contact • for power supply design of the removable storage • C-PLUG/KEY-PLUG product feature / hot-swappable interface modules  • at DC / rated value operational current / of the signaling contacts	<ul> <li>for media module</li> </ul>	12
for operator console         for management purposes         FJ11         For signaling contact	<ul><li>for power supply</li></ul>	1
<ul> <li>for management purposes</li> <li>for signaling contact</li> <li>for power supply</li> <li>design of the removable storage</li> <li>C-PLUG/KEY-PLUG</li> <li>product feature / hot-swappable interface modules</li> <li>signal inputs/outputs</li> <li>operating voltage / of the signaling contacts         <ul> <li>at DC / rated value</li> <li>operational current / of the signaling contacts</li> </ul> </li> </ul>	type of electrical connection	
• for signaling contact     • for power supply     design of the removable storage     • C-PLUG/KEY-PLUG     product feature / hot-swappable interface modules  signal inputs/outputs  operating voltage / of the signaling contacts     • at DC / rated value     operational current / of the signaling contacts	<ul> <li>for operator console</li> </ul>	RJ11
• for power supply design of the removable storage     • C-PLUG/KEY-PLUG product feature / hot-swappable interface modules  signal inputs/outputs  operating voltage / of the signaling contacts     • at DC / rated value operational current / of the signaling contacts	<ul> <li>for management purposes</li> </ul>	RJ45
design of the removable storage  • C-PLUG/KEY-PLUG  product feature / hot-swappable interface modules  **signal inputs/outputs**  operating voltage / of the signaling contacts  • at DC / rated value  operational current / of the signaling contacts	<ul> <li>for signaling contact</li> </ul>	2-pole terminal block
C-PLUG/KEY-PLUG     product feature / hot-swappable interface modules  signal inputs/outputs  operating voltage / of the signaling contacts	<ul><li>for power supply</li></ul>	4-pole terminal block
product feature / hot-swappable interface modules  signal inputs/outputs  operating voltage / of the signaling contacts  • at DC / rated value  operational current / of the signaling contacts	design of the removable storage	
signal inputs/outputs  operating voltage / of the signaling contacts	C-PLUG/KEY-PLUG	Yes
operating voltage / of the signaling contacts  • at DC / rated value  operational current / of the signaling contacts	product feature / hot-swappable interface modules	Yes
at DC / rated value Operational current / of the signaling contacts  24 V	signal inputs/outputs	
operational current / of the signaling contacts	operating voltage / of the signaling contacts	
	at DC / rated value	24 V
	operational current / of the signaling contacts	
	at DC / maximum	0.1 A
supply voltage, current consumption, power loss		

type of voltage supply / redundant power supply unit No supplied active power / of PSE / with PoE 30 W • per port / maximum • total / maximum 180 W type of voltage / 1 / of the supply voltage DC 24 V • supply voltage / 1 / rated value • power loss [W] / 1 / rated value 34.08 W 19.2 ... 28.8 V supply voltage / 1 / rated value • consumed current / 1 / maximum 12.5 A • type of electrical connection / 1 / for power supply 4-pole terminal block • product component / 1 / fusing at power supply input Yes ambient temperature during operation 0 ... 60 °C -40 ... +70 °C during storage during transport -40 ... +70 °C Operation with integral fan, replaceable note relative humidity • at 25 °C / without condensation / during operation / 95 % maximum protection class IP IP20 design, dimensions and weights 19" rack number of modular height units / relating to 19-inch 3 cabinet width 449 mm height 130.8 mm depth 305 mm net weight 10 kg fastening method Yes • 19-inch installation • 35 mm top hat DIN rail mounting No wall mounting No • S7-300 rail mounting No • S7-1500 rail mounting No type of cable outlet Cable outlet at front product features, product functions, product components / general cascading in cases of star topology any (depending only on signal propagation time) product functions / management, configuration, engineering 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 PROFINET conformity class В product function / switch-managed Yes telegram length / for Ethernet / maximum 9216 byte protocol / is supported Yes Telnet • HTTP Yes HTTPS Yes • TFTP Yes • FTP Yes BOOTP Yes GMRP Yes DCP Yes • LLDP Yes

• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
IGMP (snooping/querier)  identification & maintenance function	Yes
identification & maintenance function	Van
<ul> <li>I&amp;M0 - device-specific information</li> <li>I&amp;M1 - higher level designation/location designation</li> </ul>	Yes Yes
product functions / diagnostics	165
product function  • port diagnostics	Yes
statistics Packet Size	Yes
statistics racket 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
<ul> <li>DHCP Option 66</li> </ul>	Yes
DHCP Option 67	Yes
product functions / routing	
service / routing / note	IP routing integrated
product function	
• static IP routing	Yes
static IP routing IPv6	Yes
dynamic IP routing	Yes
dynamic IP routing IPv6  protected.	Yes
protocol / is supported  • RIPv2	Yes
RIPnG for IPv6	Yes
OSPFv2	Yes
OSPFv3 for IPv6	Yes
• VRRP	Yes
VRRP for IPv6	Yes
product functions / redundancy	
product function	
• ring redundancy	Yes
High Speed Redundancy Protocol (HRP)	Yes
<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function  • media redundancy protocol (MRP) with redundancy	Yes
<ul><li>manager</li><li>Media Redundancy Protocol Interconnection (MRP-</li></ul>	Yes
<ul> <li>Media Redundancy Protocol Interconnection (MRP-I)</li> </ul>	
<ul> <li>Media Redundancy Protocol Interconnection (MRP-I)</li> <li>redundancy procedure STP</li> </ul>	Yes Yes Yes
<ul> <li>Media Redundancy Protocol Interconnection (MRP-I)</li> <li>redundancy procedure STP</li> <li>redundancy procedure RSTP</li> </ul>	Yes
<ul> <li>Media Redundancy Protocol Interconnection (MRP-I)</li> <li>redundancy procedure STP</li> </ul>	Yes Yes
<ul> <li>Media Redundancy Protocol Interconnection (MRP-I)</li> <li>redundancy procedure STP</li> <li>redundancy procedure RSTP</li> <li>redundancy procedure RSTP+</li> </ul>	Yes Yes Yes

• LACP	Yes
product functions / security	165
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> <li>SICLOCK support</li> </ul>	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes
type of time synchronization	IEEE 1588
standards, specifications, approvals	
standard	
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2,
e for cofety / from CSA and III	Group IIC, T4
<ul> <li>for safety / from CSA and UL</li> <li>for emitted interference</li> </ul>	UL 60950-1, CSA C22.2 No. 60950-1-03 EN 61000-6-4 (Class A)
for interference immunity	EN 61000-6-4 (Class A) EN 61000-6-2
reference code	LN 01000-0-2
according to IEC 81346-2	KF
<ul> <li>according to IEC 81346-2:2019</li> </ul>	KFE
standards, specifications, approvals / CE	10.2
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environm	
standard / for hazardous zone	EN 60079-0: 2009, EN60079-15: 2010, II 3 G Ex nA IIC T4 Gc, KEMA
Standard / for mazardods zone	07 ATEX 0145 X
<ul> <li>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
certificate of suitability	
CCC / for hazardous zone according to GB standard	Yes
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2, EN 61000-6-4
• C-Tick	Yes
<ul> <li>KC approval</li> </ul>	Yes
• E1 approval	No 
• E1 approval	No
further information / internet-Links	
Internet-Link	h
to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
to website: Industrial communication     to website: Industry Mall	http://www.siemens.com/simatic-net
to website: Industry Mall     to website: Information and Download Center	https://mall.industry.siemens.com
to website: Information and Download Center     to website: Image database	http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb
to website: Image database     to website: CAx-Download-Manager	http://www.siemens.com/cax
to website: CAX-Download-Manager     to website: Industry Online Support	https://support.industry.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
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