SIEMENS

Data sheet

6GK5528-0AR00-2AR2

SCALANCE XR528-6M; managed IE switch; 19" rack; 4x 1000/10000 Mbit/s SFP+; 6x 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.



product type designation	SCALANCE XR528-6M	
transfer rate		
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10 Gbit/s	
interfaces / for communication / maximum configuration for modular devices		
number of electrical ports / maximum	24	
number of optical ports / maximum	28	
interfaces / for communication / integrated		
number of electrical connections		
 for network components or terminal equipment 	RJ45	
 for Power-over-Ethernet / for network components or terminal equipment 	12	
number of electrical connections		
• for SFP+	4	
interfaces / for communication / plug-in		
number of 100 Mbit/s ST(BFOC) ports		
• for multimode	24	
• for single mode (LD)	24	
number of 1000 Mbit/s SC ports		
• for multimode	24	
• for single mode (LD)	24	
number of electrical connections		
• for SFP	4	
• for SFP+	4	
interfaces / other		
number of electrical connections		
 for operator console 	1	
 for management purposes 	1	
 for signaling contact 	1	
• for media module	6	
 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	
design of the removable storage		
• C-PLUG/KEY-PLUG	Yes	
product feature / hot-swappable interface modules	Yes	
signal inputs/outputs		

at DC / rated value	24 V
operational current / of the signaling contacts	27 V
at DC / maximum	0.1 A
	0:1 A
supply voltage, current consumption, power loss	Na
type of voltage supply / redundant power supply unit	No
supplied active power / of PSE / with PoE	
per port / maximum	30 W
total / maximum	180 W
type of voltage / 1 / of the supply voltage	DC
supply voltage / 1 / rated value	24 V
power loss [W] / 1 / rated value	22 W
 supply voltage / 1 / rated value 	19.2 28.8 V
consumed current / 1 / maximum	11.5 A
 type of electrical connection / 1 / for power supply 	4-pole terminal block
 product component / 1 / fusing at power supply input 	Yes
ambient conditions	
ambient temperature	
during operation	0 60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
• note	Operation with integral fan, replaceable
relative humidity	
 at 25 °C / without condensation / during operation / 	95 %
maximum	
protection class IP	IP20
design, dimensions and weights	
design	19" rack
number of modular height units / relating to 19-inch cabinet	2
width	449 mm
height	87.2 mm
depth	305 mm
net weight	7.2 kg
fastening method	
19-inch installation	Yes
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 / gene	
cascading in cases of star topology	any (depending only on signal propagation time)
product functions / management, configuration, engineering	any (depending only on signal propagation time)
product function	Ven
• 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	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes

*	- ETD	Voc
COMPR	• FTP	Yes
DCP		
ILIDP SIMIP V1 SIMIP V2 SIMIP		
SNMP v2 SNMP v3 SNMP v3 SNMP v3 SNMP v3 SNMP system sunitariance function SNM1 - higher level designation/coation designation SNM1 - higher level designation/coation designation Product functions / diagnostics Product function / diagnostics Product function / diagnostics Product function / diagnostics SNMP v2 SNM1 - higher level designation/coation designation Product function / system syst		
SMAP v3 SMAP		
Ves		
identification & maintenance function • I&Mo - device-specific information • I&M - thigher level designation floesignation • I&M - higher level designation floesignation • IAM - port diagnostics • Pes • statistics Packet type • Yes • statistics Packet type • Yes • IAM - statistics • Yes • IAM - IAM - Performance / VLAN • IAM - port based • VLAN - Protocol-based • VLAN - Protocol-based • VLAN - IAM - maintum 255 • VLAN - IAM - maintum 255 • Ves • IAM - IAM - dynamic / maximum 256 • IAM - IAM - IAM - maintum 257 • IAM - IAM		
**IAMO - Legivicus-specific information Yes		Yes
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product functions / Idlagnostics	·	
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e error stallatics		
SysLog product functions / VLAN protucts muchan VLAN - port based Yes VLAN - protocol-based Yes VLAN - IP-based Yes Product function Yes In umber of VLANS - dynamic / maximum 255 protocol / is supported / GVRP Pes Product function / HOP product function - DHCP client Yes - DHCP Option 82 Yes - DHCP Option 86 Yes - DHCP Option 87 Yes Product functions / routing service / routing / note product function - static IP routing / note - static IP routing iProf - dynamic IP routing iPv6 - dynamic IP routing iPv6 - dynamic IP routing iPv6 - RIPV2 - RIPNG For IPv6 - RIPV2 - RIPNG for IPv6 - VRRP - VRRP Yes - VRRP for IPv6 - VRRP - VRRP - VRRP - VRRP - VRRP - VRR - VRRP - VRS - VRRP - VRR - VRRP - VRRP - VRR - VRR - VRRP - VRR - VRRP - VRR - VRR - VRR - VRRP - VRR - V		
product functions / VLAN prot based Yes		
product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum 255 number of VLANs / maximum 255 protocol / is supported / GVRP Product functions / DHCP product functions / DHCP Option 82 • DHCP Option 83 • DHCP Option 86 • DHCP Option 86 • DHCP Option 87 • Static IP routing / note product functions / routing service / routing / note product functions / routing evice / routing / Proting / Yes • dynamic IP routing Pv6 • CSPFV2 • CSPFV2 • VRS • VRRP Yes product function • ring redundancy product function • ring redundancy protocol (HRP) • high speed redundancy protocol (HRP) • high speed redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy product function • media redundancy protocol (MRP) with redundancy		Yes
VLAN - protocol-based VLAN - protocol-based VLAN of protocol-based VLAN of yoramic VES VLAN of yoramic Number of VLANs / maximum Z55 number of VLANs - dynamic / maximum Z55 protocol / is supported / CVRP Product functions / DHCP product function DHCP client PHCP Option 86 DHCP Option 66 Yes DHCP Option 67 Product functions / routing service / routing / note Product functions / ves visite in Prouting Product function * static iP routing / Yes * static iP routing iPv6 * dynamic iP routing iPv6 * Ves * diphnG for iPv6 * QSPFv2 * RIPnG for iPv6 * Ves * VRRP * High Speed redundancy Protocol (HRP) * With speed redundancy protocol (HRP) * With speed redundancy protocol (MRP) * With speed redundancy protocol (MRP) * VRRP * VRRP * VRR ves * Neglandancy protocol (MRP) * VRRP * Neglandancy		
VLAN - protocol-based VLAN - IP-based VLAN - Myannic Ves VLAN - Myannic number of VLANs / maximum 255 number of VLANs - Aynamic / maximum 255 number of VLANs - Aynamic / maximum 255 product functions / DHCP product functions / DHCP product function - DHCP client - DHCP Option 82 - DHCP Option 82 - DHCP Option 86 - DHCP Option 67 - Yes - DHCP Option 7 - Yes product functions / routing service / routing / note product function - static IP routing rote - static IP routing rote - dynamic IP routing Yes - dynamic IP routing IPv6 - Aynamic IP routing Yes - RIPnG for IPv6 - RIPv2 - RIPnG for IPv6 - VRRP	product function	
VLAN - IP-based	 VLAN - port based 	Yes
VLAN dynamic number of VLANs - dynamic / maximum number of VLANs - dynamic / maximum protocol / is supported / GVRP Yes Product functions / DRICP product function DHCP client DHCP Option 82 DHCP Option 86 See See See See See See See See See Se	 VLAN - protocol-based 	Yes
number of VLANs / maximum 255 number of VLANs - dynamic / maximum 255 protocol / is supported / GVRP product functions / DHCP product functions / DHCP product function / DHCP Uses DHCP Option 82 Yes DHCP Option 86 Yes DHCP Option 66 Yes DHCP Option 77 Yes product functions / routing service / routing / note	VLAN - IP-based	Yes
number of VLANs - dynamic / maximum product functions / DHCP product functions / DHCP product functions / DHCP product function DHCP client	VLAN dynamic	Yes
protocol / is supported / GVRP product functions / DHCP product functions	number of VLANs / maximum	255
product functions / DHCP product function • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 * Yes • DHCP Option 67 * Yes * Service / routing / note product functions / routing * service / routing / note product function • static IP routing • static IP routing • static IP routing • static IP routing * Yes • dynamic IP routing IPv6 • dynamic IP routing IPv6 • (Alphanic IP routing IPv6 • (Alphanic IP routing IPv6 • (Alphanic IPv6) • (Alph	number of VLANs - dynamic / maximum	255
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DHCP Option 67 product functions / routing service / routing / note product function static IP routing	DHCP Option 82	Yes
service / routing / note product function • static IP routing • yes • dynamic IP routing IPv6 • dynamic IP routing IPv6 • dynamic IP routing IPv6 • Yes protocol / is supported • RIPv2 • RIPnG for IPv6 • Yes • OSPFv2 • OSPFv2 • OSPFv2 • VRRP • VRRP • VRRP • VRRP for IPv6 • Yes product functions / redundancy product function • ring redundancy • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function • media redundancy protocol (MRP) with redundancy manager product function • media redundancy protocol (MRP) with redundancy	 DHCP Option 66 	Yes
service / routing / note	 DHCP Option 67 	Yes
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dynamic IP routing	 static IP routing 	Yes
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protocol / is supported • RIPv2 • RIPnG for IPv6 • OSPFv2 • OSPFv3 for IPv6 • VRRP • VRRP • VRRP for IPv6 Product functions / redundancy product function • ring redundancy • high Speed Redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) • media redundancy protocol (MRP) with redundancy manager • media redundancy protocol (MRP) with redundancy media redundancy protocol / MRP) with redundancy media redundancy protocol (MRP) yes	dynamic IP routing	Yes
RIPv2 RIPnG for IPv6 PosPrv2 RIPnG for IPv6 Superior IPv6 OSPFv2 OSPFv3 for IPv6 VRRP Ves VRRP Ves VRRP Ves VRRP for IPv6 Ves product functions / redundancy product function ring redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function media redundancy protocol (MRP) with redundancy manager	dynamic IP routing IPv6	Yes
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 VRRP VRRP for IPv6 Yes product functions / redundancy product function ring redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function media redundancy protocol (MRP) with redundancy manager Yes 	OSPFv2	Yes
● VRRP for IPv6 product functions / redundancy product function ● ring redundancy ● High Speed Redundancy Protocol (HRP) ● high speed redundancy protocol (HRP) with redundancy manager ● high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function ● media redundancy protocol (MRP) with redundancy manager Yes Yes	OSPFv3 for IPv6	Yes
product functions / redundancy product function • ring redundancy • High Speed Redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function • media redundancy protocol (MRP) with redundancy manager Yes	• VRRP	Yes
product function • ring redundancy • High Speed Redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function • media redundancy protocol (MRP) with redundancy manager Yes Yes	VRRP for IPv6	Yes
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redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function ● media redundancy protocol (MRP) with redundancy manager Yes Yes		
product function ● media redundancy protocol (MRP) with redundancy manager Yes		Yes
media redundancy protocol (MRP) with redundancy manager Yes	protocol / is supported / Media Redundancy Protocol (MRP)	Yes
manager	product function	
Media Redundancy Protocol Interconnection (MRP-I) Yes		Yes
	Media Redundancy Protocol Interconnection (MRP-I)	Yes

 redundancy procedure STP 	Yes
 redundancy procedure RSTP 	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
standards, specifications, approvals	
standard	
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC,
	T4
 for safety / from 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
reference code	
 according to IEC 81346-2 	KF
 according to IEC 81346-2:2019 	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN 60079-0: 2009, EN60079-15: 2010, II 3 G Ex nA IIC T4 Gc, KEMA 07 ATEX 0145 X
● from CSA and UL	ISA 12.12.01-2012 (Hazardous Location), Class 1 / Division 2 / Group A, B, C,
● HOITI COA AND OL	D / T4, Class 1 / Zone 2 / Group IIC / T4
certificate of suitability	
CCC / for hazardous zone according to GB standard	Yes
CCC / for hazardous zone according to GB standard / as	Ex nA IIC T4 Gc
marking	
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2, EN 61000-6-4
• C-Tick	Yes
 KC approval 	Yes
● E1 approval	No
• E1 approval	No
standards, specifications, approvals / marine classification	
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	Yes
• DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
Polski Rejestr Statkow (PRS)	Yes
Royal Institution of Naval Architects (RINA)	Yes
further information / internet links	
internet link	

• to web page: selection aid TIA 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/tia-selection-tool 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

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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