# **SIEMENS**

### **Data sheet**

## 6GK5528-0AA00-2AR2

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 prepared; 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 / integrated	
number of electrical connections  • for network components or terminal equipment	RJ45
<ul> <li>for Power-over-Ethernet / for network components or terminal equipment</li> </ul>	12
number of electrical connections	
• for SFP+	4
interfaces / for communication / plug-in	
number of 100 Mbit/s ST(BFOC) ports	
• for multimode	24
<ul><li>for single mode (LD)</li></ul>	24
number of 1000 Mbit/s SC ports	
<ul> <li>for multimode</li> </ul>	24
<ul><li>for single mode (LD)</li></ul>	24
number of electrical connections	
• for SFP	4
• for SFP+	4
interfaces / other	
number of electrical connections	
<ul> <li>for operator console</li> </ul>	1
<ul> <li>for management purposes</li> </ul>	1
<ul> <li>for signaling contact</li> </ul>	1
<ul> <li>for media module</li> </ul>	6
<ul> <li>for power supply</li> </ul>	1
type of electrical connection	
<ul> <li>for operator console</li> </ul>	RJ11
<ul> <li>for management purposes</li> </ul>	RJ45
<ul> <li>for signaling contact</li> </ul>	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	
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	
product component / connection for redundant voltage supply	Yes
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
<ul> <li>product component / 1 / fusing at power supply input</li> </ul>	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 / maximum	95 %
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	
cascading in cases of star topology	any (depending only on signal propagation time)
product functions / management, configuration, engineering	ng
product function	
• CLI	Yes
<ul> <li>web-based management</li> </ul>	Yes
MIB support	Yes
TRAPs via email	Yes
<ul><li>configuration with STEP 7</li></ul>	Yes
• RMON	Yes
• port mirroring	Yes
<ul> <li>multiport mirroring</li> </ul>	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

LITTEO	V
• 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)	Yes
identification & maintenance function	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
<ul> <li>I&amp;M1 – higher level designation/location designation</li> </ul>	Yes
product functions / diagnostics	
product function	
<ul> <li>port diagnostics</li> </ul>	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
protocor is supported if GVIVI	163
product functions / DHCB	
product functions / DHCP	
product function	Vac
product function  • DHCP client	Yes
product function  DHCP client  DHCP Option 82	Yes
product function  • DHCP client  • DHCP Option 82  • DHCP Option 66	Yes Yes
product function  • DHCP client  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67	Yes
product function  • DHCP client  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67  product functions / routing	Yes Yes
product function  • DHCP client  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67  product functions / routing  service / routing / note	Yes Yes
product function  • DHCP client  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67  product functions / routing  service / routing / note  product function	Yes Yes Yes
product function  • DHCP client  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67  product functions / routing  service / routing / note	Yes Yes Yes
product function  • DHCP client  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67  product functions / routing  service / routing / note  product function  • static IP routing  • static IP routing IPv6	Yes Yes Yes  IP routing in combination with KEY-PLUG XR-500  Yes Yes
product function  • DHCP client  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67  product functions / routing  service / routing / note  product function  • static IP routing  • static IP routing IPv6  • dynamic IP routing	Yes Yes Yes Yes IP routing in combination with KEY-PLUG XR-500 Yes
product function  • DHCP client  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67  product functions / routing  service / routing / note  product function  • static IP routing  • static IP routing IPv6	Yes Yes Yes  IP routing in combination with KEY-PLUG XR-500  Yes Yes
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product function  DHCP client  DHCP Option 82  DHCP Option 66  DHCP Option 67  product functions / routing  service / routing / note  product function  static IP routing  static IP routing IPv6  dynamic IP routing IPv6	Yes Yes Yes Yes  IP routing in combination with KEY-PLUG XR-500  Yes Yes Yes
product function  • DHCP client  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67  product functions / routing  service / routing / note  product function  • static IP routing  • static IP routing IPv6  • dynamic IP routing  • dynamic IP routing IPv6  protocol / is supported	Yes Yes Yes  IP routing in combination with KEY-PLUG XR-500  Yes Yes Yes Yes Yes
product function  • DHCP client  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67  product functions / routing  service / routing / note  product function  • static IP routing  • static IP routing IPv6  • dynamic IP routing IPv6  protocol / is supported  • RIPv2	Yes Yes Yes  IP routing in combination with KEY-PLUG XR-500  Yes Yes Yes Yes Yes
product function  • DHCP client  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67  product functions / routing  service / routing / note  product function  • static IP routing  • static IP routing IPv6  • dynamic IP routing  • dynamic IP routing IPv6  protocol / is supported  • RIPv2  • RIPnG for IPv6	Yes Yes Yes  IP routing in combination with KEY-PLUG XR-500  Yes Yes Yes Yes Yes Yes
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product function  DHCP client  DHCP Option 82  DHCP Option 66  DHCP Option 67  product functions / routing  service / routing / note  product function  static IP routing  static IP routing IPv6  dynamic IP routing  dynamic IP routing IPv6  protocol / is supported  RIPv2  RIPnG for IPv6  OSPFv2  OSPFv3 for IPv6  VRRP	Yes Yes Yes  IP routing in combination with KEY-PLUG XR-500  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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product function  DHCP client  DHCP Option 82  DHCP Option 66  DHCP Option 67  product functions / routing  service / routing / note  product function  static IP routing IPv6  dynamic IP routing IPv6  dynamic IP routing IPv6  protocol / is supported  RIPv2  RIPnG for IPv6  OSPFv2  OSPFv3 for IPv6  VRRP  VRRP for IPv6  product functions / redundancy  product function  ring redundancy	Yes Yes Yes  IP routing in combination with KEY-PLUG XR-500  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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product function  DHCP client  DHCP Option 82  DHCP Option 66  DHCP Option 67  product functions / routing  service / routing / note  product function  static IP routing IPv6  dynamic IP routing IPv6  dynamic IP routing IPv6  protocol / is supported  RIPv2  RIPnG for IPv6  OSPFv2  OSPFv3 for IPv6  VRRP  VRRP for IPv6  product functions / redundancy  product function  ring redundancy	Yes Yes Yes  IP routing in combination with KEY-PLUG XR-500  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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product function  DHCP client DHCP Option 82 DHCP Option 66 DHCP Option 67  product functions / routing  service / routing / note  product function  static IP routing static IP routing IPv6 dynamic IP routing IPv6 dynamic IP routing IPv6  rotocol / is supported RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 VRRP VRRP for IPv6  roduct functions / redundancy  product function  ing redundancy High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby	Yes Yes Yes  IP routing in combination with KEY-PLUG XR-500  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

product function	
<ul> <li>media redundancy protocol (MRP) with redundancy</li> </ul>	Yes
manager	
Media Redundancy Protocol Interconnection (MRP-	Yes
I)	V
redundancy procedure STP	Yes
redundancy procedure RSTP	Yes
<ul> <li>redundancy procedure RSTP+</li> </ul>	Yes
<ul> <li>redundancy procedure MSTP</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	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 minicast minici     broadcast blocking	Yes
protocol / is supported	
• SSH	Yes
	165
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
<ul> <li>for safety / from CSA and UL</li> </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	
<ul> <li>according to IEC 81346-2</li> </ul>	KF
<ul> <li>according to IEC 81346-2:2019</li> </ul>	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environr	
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, 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
KC approval	Yes
• E1 approval	No
● E1 approval	No
standards, specifications, approvals / marine classification	n
standards, specifications, approvals / marine classification	n
Marine classification association	
	Yes Yes

Det Norske Veritas (DNV)
Germanische Lloyd (GL)
No
DNV GL
Yes
Lloyds Register of Shipping (LRS)
Nippon Kaiji Kyokai (NK)
Polski Rejestr Statkow (PRS)
Royal Institution of Naval Architects (RINA)

#### 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

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#### security information

security information

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