SIEMENS

Data sheet

6GK5328-4FS00-2AR3

SCALANCE XR328-4C WG; managed IE switch; 19" rack; 24 x 10/100 Mbit/s electrical ports; 4 x 1000 Mbit/s combo ports electrical or optical; LED diagnostics; Reset button; console port; PROFINET device; network management function; redundancy manager; Power supply 24 V DC;



Product type designation	SCALANCE XR328-4C WG
Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
Interfaces / for communication / integrated	
Number of electrical connections	
 for network components or terminal equipment 	28; RJ45
Number of 10/100 Mbit/s RJ45 ports / Integrated	24
Number of combo ports / with RJ45 interface for	4; 1000 Mbit/s
optical plug-in transceiver	
Interfaces / others	
Number of electrical connections	
• for operator console	1
• for power supply	1
 for redundant voltage supply 	1
Type of electrical connection	
• for power supply	2 x 2-pin terminal block
Supply voltage, current consumption, power loss	
Type of voltage supply / redundant power supply unit	No
	No

Type of voltage / of the supply voltage	DC
Supply voltage	
• external	24 V
external / minimum	19.2 V
external / maximum	28.8 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	F 5 A / 60 V
Consumed current / maximum	0.5 A
Power loss [W]	0.071
• at DC / at 24 V	12 W
- at 50 / at 24 V	
Permitted ambient conditions	
Ambient temperature	
during operation	0 60 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
Relative humidity	
 at 25 °C / without condensation / during 	95 %
operation / maximum	
Protection class IP	IP30
Design, dimensions and weight	
Design	19" rack
Number of modular height units / relating to 19-inch	1
cabinet	
Width	483 mm
Height	44 mm
Depth	127 mm
Net weight	2.8 kg
Mounting type	
• 19-inch installation	Yes
• 35 mm DIN rail mounting	No
wall mounting	No
• S7-300 rail mounting	No
• S7-1500 rail mounting	No
Product properties, functions, components / genera	
Cascading in the case of a redundant ring / at	50
reconfiguration time of <\~0.3\~s	
Cascading in cases of star topology	any (depending only on signal propagation time)
Product functions / management, configuration	
Product function	
• CLI	Yes
web-based management	Yes

• MIB support • TRAPs via email • Configuration with STEP 7 • RMON • Port mirroring • CoS • PROFINET 10 diagnosis PROFINET conformity class B Product function / switch-managed • Teinet		
Configuration with STEP 7 RMON Port mirroring Port mirroring Profit mirroring CoS Yes PROFINET IO diagnosis PROFINET conformity class Product function / switch-managed Protocol / is supported Telnet	 MIB support 	Yes
• RMON Yes • Port mirroring Yes • multiport mirroring No • CoS • CoS • PROFINET IO diagnosis Yes • PROFINET conformity class B • Product function / switch-managed Yes • Protocol / is supported • Teinet Yes • HTTP • HTTPS • HTTPS • HTTPS • Yes • TFTP • BOOTP • SMMP • DCP • LLDP • SMMP v1 • SMMP v2 • SMMP v2 • SMMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&M1 - Injeher-level designation/location designation • Product functions / Diagnosis Product functions • Product function • Statistics Packet type • SysLog Product functions / VLAN • Product function • VLAN - prot based • VLAN - IP-based	 TRAPs via email 	Yes
Port mirroring	Configuration with STEP 7	Yes
• multiport mirroring • CoS • PROFINET IO diagnosis • Product function / switch-managed Protocol / is supported • Teinet	• RMON	Yes
• CoS • PROFINET IO diagnosis PROFINET conformity class B Product function / switch-managed Protocol / is supported • Telnet • Telnet • HTTP • HTTPS • HTTPS • HTTP • HTTPS • BOOTP • BOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&MO - device-specific information • I&MO - device-specific information • I&MO - device-specific information • Statistics Packet Size • Statistics packet type • Statistics packet type • SysLog Product functions / VLAN Product function • VLAN - prot based • VLAN - protocol-based • VLAN - protocol-based • VLAN - protocol-based • VLAN - protocol-based	Port mirroring	Yes
PROFINET IO diagnosis PROFINET conformity class Product function / switch-managed Protocol / is supported • Telnet • Telnet • HTTP • HTTPS • HTTPS • HTTPS • FTP • HOOP • GMRP • BOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&M1 – higher-level designation/location designation • Port diagnostics • Statistics Packet Size • Statistics packet type • Error statistics • Yes • SysLog Product functions / VLAN Product function • VLAN - prot based • VLAN - protocol-based	 multiport mirroring 	No
PROFINET conformity class B	• CoS	Yes
Product function / switch-managed	PROFINET IO diagnosis	Yes
Protocol / is supported	PROFINET conformity class	В
• Telnet • HTTP • HTTPS • HTTPS • HTTP • HTTP • Yes • TFTP • Yes • FTP • BOOTP • GMRP • DCP • Jes • LLDP • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&M0 - device-specific information • I&M0 - device-specific information • I&M1 - higher-level designation/location designation Product functions / Diagnosis Product functions / Pes • Statistics packet Size • Statistics packet type • Error statistics • SysLog Product functions / VLAN Product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based No	Product function / switch-managed	Yes
 HTTP HTTPS Yes TFTP Yes FTP PYes BOOTP GMRP No DCP Yes LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Identification & maintenance function I&M0 - device-specific information I&M1 - higher-level designation/location designation Porduct functions / Diagnosis Product functions / Per diagnostics Statistics Packet Size Statistics Packet Size Yes Statistics packet type Error statistics Yes SysLog Product functions / VLAN Product functions / VLAN Product function VLAN - port based VLAN - port based VLAN - protocol-based VLAN - IP-based No 	Protocol / is supported	
 HTTPS TFTP Yes FTP PFTP BOOTP GMRP DCP Yes LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Identification & maintenance function I&M0 - device-specific information I&M1 - higher-level designation/location designation I&M1 - higher-level designation/location Product functions / Diagnosis Product function Port diagnostics Statistics Packet Size Statistics packet type Error statistics SysLog Yes Product functions / VLAN Product functions / VLAN Product functions / VLAN Product functions / VLAN - protocol-based VLAN - protocol-based VLAN - IP-based No 	• Telnet	Yes
• TFTP • FTP • FTP • FTP • BOOTP • BOOTP • GMRP • DCP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&M0 - device-specific information • I&M0 - device-specific information • I&M1 - higher-level designation/location designation Product functions / Diagnosis Product functions • Port diagnostics • Statistics Packet Size • Statistics packet type • Error statistics • SysLog Product functions • VLAN - port based • VLAN - protocol-based • VLAN - protocol-based • VLAN - IP-based • VLAN - IP-based	• HTTP	Yes
• FTP • BOOTP • BOOTP • GMRP • OCP • GMRP • DCP • Yes • LLDP • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • 18M0 - device-specific information • 18M0 - device-specific information • 18M1 - higher-level designation/location designation Product functions / Diagnosis Product functions • Port diagnostics • Statistics Packet Size • Statistics packet type • Error statistics • SysLog Product functions / VLAN Product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based No	• HTTPS	Yes
	• TFTP	Yes
	• FTP	Yes
DCP ILLDP SNMP v1 SNMP v2 SNMP v2 SNMP v3 IGMP (snooping/querier) Identification & maintenance function I&M0 - device-specific information I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function Port diagnostics Statistics Packet Size Statistics packet type Statistics packet type Fror statistics SysLog Product functions / VLAN Product functions / VLAN Product functions / VLAN Product functions / VLAN Product function VLAN - protocol-based VLAN - IP-based No VLAN - IP-based	• BOOTP	Yes
LLDP SNMP v1 SNMP v2 SNMP v3 SNMP v3 Ves Identification & maintenance function I&M0 - device-specific information I&M1 - higher-level designation/location designation Product functions / Diagnosis Product functions Product functions Port diagnostics Statistics Packet Size Statistics packet type Error statistics SysLog Product functions / VLAN Product function Ves Ves Statistics packet vye SysLog Product functions / VLAN Product function VLAN - protocol-based No VLAN - IP-based No	• GMRP	No
	• DCP	Yes
SNMP v2 SNMP v3 SNMP v3 SNMP (snooping/querier) Identification & maintenance function Ilemtification & maintenance function Ilemtification & maintenance function Ilemtification & ves Ilemtification & ves Ilemtification Ilemtification Ilemtification Product functions / Diagnosis Product function Product function Product function Statistics Packet Size Statistics Packet Size Statistics packet type Statistics packet type Forduct functions / VLAN Product function VLAN - prot based VLAN - protocol-based VLAN - IP-based No VLAN - IP-based	• LLDP	Yes
SNMP v3 Identification & maintenance function Identification & maintenance function IskM0 - device-specific information IskM1 - higher-level designation/location designation Product functions / Diagnosis Product functions Product function Port diagnostics Statistics Packet Size Statistics packet type Statistics packet type Firror statistics Syes SysLog Product functions / VLAN Product functions / VLAN - port based VLAN - protocol-based No	• SNMP v1	Yes
SNMP v3 IGMP (snooping/querier) Identification & maintenance function Ilemtification & maintenance function Ilemtification & maintenance function Ilemtification & maintenance function Ilemtification & yes Ilemtification & yes Ilemtification / Ves Ilemtification / Ves Product functions / Diagnosis Product function Port diagnostics	• SNMP v2	Yes
■ IGMP (snooping/querier) Identification & maintenance function IsM0 - device-specific information IsM1 - higher-level designation/location designation Product functions / Diagnosis Product function Port diagnostics Statistics Packet Size Statistics packet type Error statistics Syes SysLog Product functions / VLAN Product function / VLAN - port based VLAN - protocol-based VLAN - IP-based No		Yes
Identification & maintenance function • I&M0 - device-specific information • I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function • Port diagnostics • Statistics Packet Size • Statistics packet type • Error statistics • SysLog Product functions / VLAN Product functions • VLAN - port based • VLAN - protocol-based • VLAN - IP-based		Yes
I&M1 – higher-level designation/location designation Product functions / Diagnosis Product function Port diagnostics Statistics Packet Size Statistics packet type Statistics packet type Error statistics SysLog Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based No No		
Product functions / Diagnosis Product function Port diagnostics Statistics Packet Size Statistics packet type Statistics packet type Firror statistics SysLog Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based No	I&M0 - device-specific information	Yes
Product functions / Diagnosis Product function • Port diagnostics • Statistics Packet Size • Statistics packet type • Error statistics • SysLog Product functions / VLAN Product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based No	 I&M1 – higher-level designation/location 	Yes
Product function Port diagnostics Statistics Packet Size Statistics packet type Statistics packet type Firor statistics SysLog Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based No No	designation	
Product function Port diagnostics Statistics Packet Size Statistics packet type Statistics packet type Firor statistics SysLog Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based No No	Product functions / Diagnosis	
Statistics Packet Size Statistics packet type Error statistics SysLog Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based Yes Yes Yes Yes Yes Yes Yes	-	
Statistics Packet Size Statistics packet type Error statistics SysLog Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based Yes Yes Yes Yes Yes Yes Yes	Port diagnostics	Yes
 Statistics packet type Error statistics SysLog Yes Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based No 		Yes
 Error statistics SysLog Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based No 	Statistics packet type	Yes
SysLog Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based Yes No		
Product functions / VLAN Product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based No		
Product function • VLAN - port based Yes • VLAN - protocol-based No • VLAN - IP-based No		
 VLAN - port based VLAN - protocol-based VLAN - IP-based No 		
 VLAN - protocol-based VLAN - IP-based No 		Yee
• VLAN - IP-based No		
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● VLAN gynamic res		
	● VLAN dynamic	165

Number of VLANs / maximum	257
Protocol / is supported / GVRP	No
Product functions / DHCP	
Product function	
DHCP client	Yes
DHCP Option 82	Yes
DHCP Option 66	Yes
DHCP Option 67	Yes
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 	No
 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	
• STP/RSTP	Yes
• STP	Yes
• RSTP	Yes
• MSTP	No
 RSTP big network support 	Yes
• LACP	No
Product functions / Security	
Product function	Vac
• 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
• IEEE 1588 profile default	No

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 hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
 for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1, UL 61010-2-201
 for hazardous zone / from CSA and UL 	ANSI/ISA 12.12.01, CAN/CSA C22.2 No. 213-M1987
• for emitted interference	EN 61000-6-4 (Class B)
• for interference immunity	EN 61000-6-2

Standards, specifications, approvals / CE	
Certificate of suitability / CE marking	Yes

Standards, specifications, approvals / hazardous environments	
Certificate of suitability	
• ATEX	Yes; EN 60079-0, EN60079-15, Ex II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• IECEx	Yes; IEC 60079-0, IEC 60079-15, IECEx DEK 14.0025X, Ex nA IIC T4 Gc

Standards, specifications, approvals / miscellaneous	
Certificate of suitability	
• C-Tick	Yes
 Railway application in accordance with EN 50155 	No
• KC approval	Yes

Further Information / Internet Links	
Internet-Link	
 to website: Selector SIMATIC NET SELECTION TOOL 	http://www.siemens.com/snst
 to website: Industrial communication 	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

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

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