

SCALANCE XR328-4C WG; managed IE switch; 19" rack; 24 x 10/ 100/1000 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; IEC 62443-4-2 certified;



product type designation	
product brand name	SCALANCE
product type designation	XR328-4C WG
Technical Product Detail Page	<a href="https://i.siemens.com/1P6GK5328-4SS00-2AR3">https://i.siemens.com/1P6GK5328-4SS00-2AR3</a>
transfer rate	
transfer rate	10, 100, 1000 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
• for network components or terminal equipment	28; RJ45
number of 10/100/1000 Mbit/s RJ45 ports	24
number of combo ports / with RJ45 interface for optical plug-in transceiver	4; 1000 Mbit/s SFP plug-in transceiver or 100 Mbit/s via SCALANCE SFP991-1 (LD) A
interfaces / other	
number of electrical connections	
• for operator console	1
• for power supply	1
type of electrical connection	
• for power supply	2 x 2-pole terminal block
supply voltage, current consumption, power loss	
product component / connection for redundant voltage supply	Yes
type of voltage supply / redundant power supply unit	No
type of voltage / 1 / of the supply voltage	DC
• supply voltage / 1 / rated value	24 V
• power loss [W] / 1 / rated value	21.6 W
• supply voltage / 1 / voltage range	19.2 ... 28.8
• consumed current / 1 / maximum	0.9 A
• type of electrical connection / 1 / for power supply	2 x 2-pole terminal block
• product component / 1 / fusing at power supply input	Yes
• fuse protection type / 1 / at input for supply voltage	F 5 A / 60 V
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 operation / maximum	95 %
protection class IP	IP30
design, dimensions and weights	

design	19-inch rack
number of modular height units / relating to 19-inch cabinet	1
width	483 mm
height	44 mm
depth	127 mm
net weight	2.8 kg
material / of the enclosure	metal
fastening method	
• 19-inch installation	Yes
• 35 mm DIN-rail mounting	No
• wall mounting	No
• S7-300 rail mounting	No
• S7-1500 rail mounting	No

#### product features, product functions, product components / general

cascading in the case of a redundant ring / at reconfiguration time of <~0.3~s	50
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	No
• CoS	Yes
• PROFINET IO diagnosis	Yes
• switch-managed	Yes
PROFINET conformity class	B
network load class / according to PROFINET	II
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	No
• DCP	Yes
• LLDP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
• IGMP (snooping/querier)	Yes
identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 - higher level designation/location designation	Yes

#### product functions / diagnostics

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	No
• VLAN - IP-based	No
• VLAN dynamic	Yes
number of VLANs / maximum	257
number of VLANs - dynamic / maximum	257
number of VLANs / at ring redundancy (HRP; MRP; standby link)	257
<b>product functions / DHCP</b>	
product function	
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	Yes
• DHCP Option 67	Yes
<b>product functions / redundancy</b>	
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
• media redundancy protocol (MRP) with redundancy manager	Yes
• ring redundancy	Yes
• high speed redundancy protocol (HRP) with redundancy manager	Yes
• high speed redundancy protocol (HRP) with standby redundancy	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
<b>product functions / security</b>	
product function	
• IEEE 802.1x (radius)	Yes
• broadcast/multicast/unicast limiter	Yes
• broadcast blocking	Yes
protocol / is supported	
• SSH	Yes
<b>product functions / time</b>	
product function	
• SICLOCK support	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes
• IEEE 1588 profile default	No
<b>standards, specifications, approvals</b>	
certificate of suitability	
• CE marking	Yes
• UKCA marking	Yes
• KC approval	Yes
• Regulatory Compliance Mark (RCM)	Yes
standard	
• for EMC interference emission	EN 61000-6-4 (Class B)

- for immunity to EMC
- for safety / from CSA and UL

EN 61000-6-2  
UL 60950-1, CSA C22.2 No. 60950-1, UL 61010-2-201

#### standards, specifications, approvals / hazardous environments

##### certificate of suitability

- ATEX
- UKEX
- IECEx
- ULhazloc approval
- CCC / for hazardous zone according to GB standard
- FM registration

Yes  
Yes  
Yes  
Yes  
Yes  
Yes

#### standards, specifications, approvals / other

##### certificate of suitability

- railway application in accordance with EN 50155
- RoHS conformity

No  
Yes

##### resistance to air pollution / conformity according to ANSI/ISA-71.04

Yes; G3

##### IT security for industrial automation systems / according to IEC 62443-4-2:2019

Yes

#### standards, specifications, approvals / Environmental Product Declaration

##### Environmental Product Declaration

Yes

##### global warming potential [CO2 eq]

• total	701.51 kg
• during manufacturing	109.07 kg
• during operation	591.89 kg
• after end of life	0.55 kg

#### product functions / general

##### MTBF

43 a

##### warranty period

5 a

##### product function / is supported / identification link

Yes; acc. to IEC 61406-1:2022

#### further information / internet links

##### internet link

- to website: Selection guide for cables and connectors
- to web page: selection aid TIA Selection Tool
- to website: Industrial communication
- to web page: SiePortal
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

<https://support.industry.siemens.com/cs/ww/en/view/109766358>  
<https://www.siemens.com/tstcloud>  
<https://www.siemens.com/simatic-net>  
<https://sieportal.siemens.com/>  
<https://www.automation.siemens.com/bilddb>  
<https://www.siemens.com/cax>  
<https://support.industry.siemens.com>

#### security information

##### security information

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#### Approvals / Certificates

##### General Product Approval



[Declaration of Conformity](#)



[China RoHS](#)



General Product Approval

EMV

For use in hazardous locations

[Declaration of Conformity](#)



[TUEV](#)



For use in hazardous locations

Test Certificates

Environment

Industrial Communication

[FM](#)

[CCC-Ex](#)

[Type Test Certificates/Test Report](#)



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