SIEMENS

Data sheet



SCALANCE XC216-4C manageable Layer 2 IE switch; IEC 62443-4-2 certified; 12x 10/100 Mbit/s RJ45 ports; 4x 1000 Mbit/s combo ports (either 1000 Mbit/s/ SFPs or 10/100/1000 Mbit/s RJ45 ports can be used); 1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C; assembly: DIN rail/S7 mounting rail/wall; redundancy functions; office features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-PLUG slot;

product type designation	
product brand name	SCALANCE
product type designation	XC216-4C
transfer 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 	16; RJ45
number of 10/100 Mbit/s RJ45 ports	
with securing collar	12
number of 10/100/1000 Mbit/s RJ45 ports	4
number of combo ports / with RJ45 interface for optical plug-in transceiver	4; 1000 MBit/s SFPs
interfaces / for communication / plug-in	
number of electrical connections	
• for SFP	4
interfaces / other	
number of electrical connections	
 for operator console 	1
 for signaling contact 	1
for power supply	1
type of electrical connection	
 for operator console 	RJ11
 for signaling contact 	2-pole terminal block
for power supply	3-pole terminal block, permanently installed
design of the removable storage	
• C-PLUG	Yes
operating voltage / of the signaling contacts	
at DC / rated value	24 V
supply voltage, current consumption, power loss	
product component / connection for redundant voltage supply	Yes
type of voltage / 1 / of the supply voltage	DC
 supply voltage / 1 / rated value 	24 V
power loss [W] / 1 / rated value	13.2 W
supply voltage / 1 / rated value	9.6 31.2 V
consumed current / 1 / maximum	0.55 A
 type of electrical connection / 1 / for power supply 	3-pole terminal block, permanently installed
 product component / 1 / fusing at power supply input 	Yes
• fuse protection type / 1 / at input for supply voltage	3.15 A / 125 V
ambient conditions	

ambient temperature	
during operation	-40 +70 °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	IP20
design, dimensions and weights	
design	compact
width	140 mm
height	150 mm
depth	125 mm
net weight	1.2 kg
material / of the enclosure	Polycarbonate (PC-GF10) / pressure die cast aluminum
fastening method	
35 mm top hat DIN rail mounting	Yes
wall mounting	No
S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
product features, product functions, product components / gene	- 11
cascading in the case of a redundant ring / at reconfiguration	50
time of <\~0.3\~s	
cascading in cases of star topology	any (depending only on signal propagation time)
product function	v.
QoS according to DSCP	Yes
product feature	
 Cut Through switching method 	No
Store & Forward switching method	Yes
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
SMTP server	No
 port mirroring 	Yes
multiport mirroring	Yes
• CoS	Yes
 PROFINET IO diagnosis 	Yes
switch-managed	Yes
PROFINET conformity class	В
network load class / according to PROFINET	3
telegram length / for Ethernet / maximum	10240 byte
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• SFTP	Yes
• BOOTP	No
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• EtherNet/IP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
IGMP (snooping/querier)	Yes
- IOIVIE (SHOOPING/quener)	100

identification & maintenance function • I&M0 - device-specific information • I&M1 - higher level designation/location designation 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	
• VLAN - IP-based	
number of VLANs / maximum 257	
number of VLANs - dynamic / maximum 257	
number of VLANs / at ring redundancy (HRP; MRP; standby 257	
link)	
product functions / DHCP	
product function	
DHCP server Yes	
DHCP client Yes	
DHCP Option 82 Yes	
DHCP Option 66 Yes	
DHCP Option 67 Yes	
product functions / redundancy	
protocol / is supported / Media Redundancy Protocol (MRP) Yes	
product function	
media redundancy protocol (MRP) with redundancy Yes	
manager	
Media Redundancy Protocol Interconnection (MRP-I) Yes Yes	
 of the PROFINET IO device / is supported / H-Sync forwarding Yes	
of the PROFINET IO device / is supported / PROFINET system redundancy	
• ring redundancy Yes	
 high speed redundancy protocol (HRP) with redundancy manager 	
 high speed redundancy protocol (HRP) with standby redundancy Yes	
• redundancy procedure STP Yes	
• redundancy procedure RSTP Yes	
• redundancy procedure RSTP+ Yes	
• redundancy procedure MSTP Yes	
Parallel Redundancy Protocol (PRP)/operation in the PRP-network Yes	
Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)	
passive listening Yes	
protocol / is supported	
• LACP Yes	
system modification during operation	
product function / configuration in RUN via CiR/H-CiR Yes	
product functions / security	
product function	
• IEEE 802.1x (radius)	
00 (.00.00)	
• RADIUS client Yes	
• RADIUS client Yes	
 RADIUS client broadcast/multicast/unicast limiter Yes 	
 RADIUS client broadcast/multicast/unicast limiter broadcast blocking Yes 	

product functions / time	
product function	
SICLOCK support	Yes
NTP-client	Yes
SNTP client	Yes
protocol / is supported	166
NTP	Yes
• SNTP	Yes
	165
standards, specifications, approvals	
certificate of suitability	Voo
CE marking Pagulatory Compliance Mark (BCM)	Yes
Regulatory Compliance Mark (RCM) The death of the second in the FMC and the second in the seco	Yes
product conformity / according to EMC-guideline	2014/30/EU
standard	EN 04000 0 4 EN 50404 40
for EMC interference emission	EN 61000-6-4, EN 50121-12
• for immunity to EMC	EN 61000-6-2, EN 50121-4
for safety / from CSA and UL	UL 60950-1 E115352, UL-61010-2 E85972
standards, specifications, approvals / hazardous environments	
certificate of suitability	
• ATEX	Yes
• UKEX	Yes
• IECEx	Yes
ULhazloc approval	Yes
 CCC / for hazardous zone according to GB standard 	Yes
FM registration	Yes
standards, specifications, approvals / other	
certificate of suitability	
RoHS conformity	Yes
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
standards, specifications, approvals / marine classification	
The state of the s	
Marine classification association	
	Yes
Marine classification association	Yes Yes
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS)	
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV)	Yes
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Chinese Classification Society (CCS)	Yes Yes
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Chinese Classification Society (CCS) • DNV GL	Yes Yes Yes
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Chinese Classification Society (CCS) • DNV GL • Korean Register of Shipping (KRS)	Yes Yes Yes Yes
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Chinese Classification Society (CCS) • DNV GL • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (LRS)	Yes Yes Yes Yes Yes
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Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Chinese Classification Society (CCS) • DNV GL • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS)	Yes
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Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Chinese Classification Society (CCS) • DNV GL • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA) standards, specifications, approvals / Environmental Product December 1975 (Environmental Product December 1975)	Yes
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Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Chinese Classification Society (CCS) DNV GL Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) Royal Institution of Naval Architects (RINA) standards, specifications, approvals / Environmental Product Descriptions Environmental Product Declaration Global Warming Potential [CO2 eq] total	Yes
Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Chinese Classification Society (CCS) DNV GL Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) Royal Institution of Naval Architects (RINA) standards, specifications, approvals / Environmental Product December 100	Yes
Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Chinese Classification Society (CCS) DNV GL Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) Royal Institution of Naval Architects (RINA) standards, specifications, approvals / Environmental Product Decention Global Warming Potential [CO2 eq] total during manufacturing during operation	Yes
Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Chinese Classification Society (CCS) DNV GL Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) Royal Institution of Naval Architects (RINA) standards, specifications, approvals / Environmental Product Declaration Global Warming Potential [CO2 eq] total during manufacturing during operation after end of life	Yes
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Chinese Classification Society (CCS) • DNV GL • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA) standards, specifications, approvals / Environmental Product Description Environmental Product Declaration Global Warming Potential [CO2 eq] • total • during manufacturing • during operation • after end of life product functions / general	Yes
Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Chinese Classification Society (CCS) DNV GL Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) Royal Institution of Naval Architects (RINA) standards, specifications, approvals / Environmental Product Declaration Global Warming Potential [CO2 eq] total during manufacturing during operation after end of life product functions / general MTBF reference code	Yes
Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Chinese Classification Society (CCS) DNV GL Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) Royal Institution of Naval Architects (RINA) standards, specifications, approvals / Environmental Product Decention Global Warming Potential [CO2 eq] total during manufacturing during operation after end of life product functions / general MTBF reference code according to IEC 81346-2	Yes
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Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Chinese Classification Society (CCS) DNV GL Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) Royal Institution of Naval Architects (RINA) standards, specifications, approvals / Environmental Product Decentration Global Warming Potential [CO2 eq] total during manufacturing during operation after end of life product functions / general MTBF reference code according to IEC 81346-2 according to IEC 81346-2:2019 Warranty period further information / internet links internet link	Yes
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Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Chinese Classification Society (CCS) DNV GL Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) Royal Institution of Naval Architects (RINA) standards, specifications, approvals / Environmental Product Declaration Global Warming Potential [CO2 eq] total during manufacturing during operation after end of life product functions / general MTBF reference code according to IEC 81346-2 according to IEC 81346-2:2019 Warranty period further information / internet links internet link to website: Selection guide for cables and connectors to web page: selection aid TIA Selection Tool	Yes
Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Chinese Classification Society (CCS) DNV GL Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) Royal Institution of Naval Architects (RINA) standards, specifications, approvals / Environmental Product Declaration Global Warming Potential [CO2 eq] total during manufacturing during operation after end of life product functions / general MTBF reference code according to IEC 81346-2 according to IEC 81346-2:2019 Warranty period further information / internet links internet link to website: Selection guide for cables and connectors	Yes

• to website: Image database

• to website: CAx-Download-Manager

• to website: Industry Online Support

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

EMV

For use in hazardous locations



Declaration of Conformity





<u>KC</u>



For use in hazardous locations

<u>FM</u>

CCC-Ex



Marine / Shipping





Marine / Shipping



Industrial Communication





CCS (China Classification Society)





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