



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	SCALANCE XC216-4C
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
interfaces / for communication / maximum configuration for modular devices	
number of electrical ports / maximum	16
number of optical ports / maximum	4
interfaces / for communication / integrated	
number of electrical connections	
• for network components or terminal equipment	16; RJ45
number of 10/100 Mbit/s RJ45 ports / integrated	
• with securing collar	12
number of 10/100/1000 Mbit/s RJ45 ports / integrated	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; 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 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
signal inputs/outputs	
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
• consumed current / 1 / at rated supply voltage / maximum	0.55 A
• supply voltage / 1 / rated value	9.6 ... 31.2 V
• type of electrical connection / 1 / for power supply	3-pole terminal block, permanently installed

- product component / 1 / fusing at power supply input - fuse protection type / 1 / at input for supply voltage	Yes 3.15 A / 125 V
ambient conditions	
ambient temperature	
- during operation - during storage - during transport	-40 ... +70 °C -40 ... +85 °C -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 - wall mounting - S7-300 rail mounting - S7-1500 rail mounting	Yes No Yes Yes
product features, product functions, product components / general	
cascading in the case of a redundant ring / at reconfiguration time of <1~0.3~s	50
cascading in cases of star topology	any (depending only on signal propagation time)
product function / QoS according to DSCP	Yes
product feature	
- Cut Through switching method - Store & Forward switching method	No Yes
product functions / management, configuration, engineering	
product function	
- CLI - web-based management - MIB support - TRAPs via email - configuration with STEP 7 - RMON - SMTP server - port mirroring - multiport mirroring - CoS - PROFINET IO diagnosis	Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes
PROFINET conformity class	B
network load class / according to PROFINET	3
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	10240 byte
protocol / is supported	
- Telnet - HTTP - HTTPS - TFTP - BOOTP - GMRP - DCP - LLDP - EtherNet/IP - SNMP v1 - SNMP v2 - SNMP v3	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes 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
number of VLANs / maximum	257
number of VLANs - dynamic / maximum	257
number of VLANs / at ring redundancy (HRP; MRP; standby link)	257
protocol / is supported / GVRP	Yes
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	
product function	
of the PROFINET IO device / is supported / PROFINET system redundancy	Yes
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
Media Redundancy Protocol Interconnection (MRP-I)	Yes
of the PROFINET IO device / is supported / H-Sync forwarding	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)	No
passive listening	Yes
protocol / is supported	
LACP	Yes
product functions / security	
product function	
IEEE 802.1x (radius)	Yes
broadcast/multicast/unicast limiter	Yes
broadcast blocking	Yes
protocol / is supported	
SSH	Yes

• SSL	Yes
product functions / time	
product function	
• SICLOCK support	Yes
• NTP-client	Yes
• SNTP client	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	Yes
standards, specifications, approvals	
standard	
• for FM	FM19US0167X
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
MTBF	46 a
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
product conformity / according to EMC-guideline	2014/30/EU
standard	
• for EMC interference emission	EN 61000-6-4, EN 50121-12
• for immunity to EMC	EN 61000-6-2, EN 50121-4
certificate of suitability / RoHS conformity	Yes; 2011/65/EU
standards, specifications, approvals / hazardous environments	
certificate of suitability	
• CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
• CCC / for hazardous zone according to GB standard / as marking	Ex nA IIC T4 Gc
standards, specifications, approvals / marine classification	
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• Chinese Classification Society (CCS)	Yes
• DNV GL	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Polski Rejestr Statkow (PRS)	Yes
• Royal Institution of Naval Architects (RINA)	Yes
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	339.9 kg
• during manufacturing	57.33 kg
• during operation	281.79 kg
• after end of life	0.76 kg
product functions / general	
Warranty period	5 a
accessories	
product extension / optional / C-PLUG	Yes
further information / internet links	
internet link	
• to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
• to website: Selection guide for cables and connectors	https://sie.ag/2QdlxcP
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute

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Approvals / Certificates

General Product Approval		EMV	For use in hazardous locations		
 EG-Konf.		Manufacturer Declaration	 RCM	 IECEx	 ATEX
For use in hazardous locations		Marine / Shipping			
FM	CCC-Ex	 ABS	 BUREAU VERITAS	 DNV	 PRS
Marine / Shipping		Environment			
 RINA	 KR KOREAN REGISTER	EPD Typ II/III (with life cycle assessment)			

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