



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 / general	
cascading in the case of a redundant ring / at reconfiguration time of $\leq 0.3\text{ s}$	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	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	B
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
• BOOTP	No
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• EtherNet/IP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
• IGMP (snooping/querier)	Yes
identification & maintenance function	

<ul style="list-style-type: none"> • I&M0 - device-specific information 	Yes
<ul style="list-style-type: none"> • I&M1 - higher level designation/location designation 	Yes
product functions / diagnostics	
product function	
<ul style="list-style-type: none"> • port diagnostics 	Yes
<ul style="list-style-type: none"> • statistics Packet Size 	Yes
<ul style="list-style-type: none"> • statistics packet type 	Yes
<ul style="list-style-type: none"> • error statistics 	Yes
<ul style="list-style-type: none"> • SysLog 	Yes
product functions / VLAN	
product function	
<ul style="list-style-type: none"> • VLAN - port based 	Yes
<ul style="list-style-type: none"> • VLAN - protocol-based 	No
<ul style="list-style-type: none"> • 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
product functions / DHCP	
product function	
<ul style="list-style-type: none"> • DHCP server 	Yes
<ul style="list-style-type: none"> • DHCP client 	Yes
<ul style="list-style-type: none"> • DHCP Option 82 	Yes
<ul style="list-style-type: none"> • DHCP Option 66 	Yes
<ul style="list-style-type: none"> • DHCP Option 67 	Yes
product functions / redundancy	
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul style="list-style-type: none"> • media redundancy protocol (MRP) with redundancy manager 	Yes
<ul style="list-style-type: none"> • Media Redundancy Protocol Interconnection (MRP-I) 	Yes
<ul style="list-style-type: none"> • of the PROFINET IO device / is supported / H-Sync forwarding 	Yes
<ul style="list-style-type: none"> • of the PROFINET IO device / is supported / PROFINET system redundancy 	Yes
<ul style="list-style-type: none"> • ring redundancy 	Yes
<ul style="list-style-type: none"> • high speed redundancy protocol (HRP) with redundancy manager 	Yes
<ul style="list-style-type: none"> • high speed redundancy protocol (HRP) with standby redundancy 	Yes
<ul style="list-style-type: none"> • redundancy procedure STP 	Yes
<ul style="list-style-type: none"> • redundancy procedure RSTP 	Yes
<ul style="list-style-type: none"> • redundancy procedure RSTP+ 	Yes
<ul style="list-style-type: none"> • redundancy procedure MSTP 	Yes
<ul style="list-style-type: none"> • Parallel Redundancy Protocol (PRP)/operation in the PRP-network 	Yes
<ul style="list-style-type: none"> • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) 	No
<ul style="list-style-type: none"> • passive listening 	Yes
protocol / is supported	
<ul style="list-style-type: none"> • LACP 	Yes
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	Yes
product functions / security	
product function	
<ul style="list-style-type: none"> • IEEE 802.1x (radius) 	Yes
<ul style="list-style-type: none"> • broadcast/multicast/unicast limiter 	Yes
<ul style="list-style-type: none"> • broadcast blocking 	Yes
protocol / is supported	
<ul style="list-style-type: none"> • SSH 	Yes
<ul style="list-style-type: none"> • SSL 	Yes
product functions / time	
product function	

<ul style="list-style-type: none"> • SICLOCK support 	Yes
<ul style="list-style-type: none"> • NTP-client 	Yes
<ul style="list-style-type: none"> • SNTP client 	Yes
protocol / is supported	
<ul style="list-style-type: none"> • NTP 	Yes
<ul style="list-style-type: none"> • SNTP 	Yes

standards, specifications, approvals

certificate of suitability	
<ul style="list-style-type: none"> • CE marking 	Yes
<ul style="list-style-type: none"> • Regulatory Compliance Mark (RCM) 	Yes
product conformity / according to EMC-guideline	2014/30/EU
standard	
<ul style="list-style-type: none"> • for EMC interference emission 	EN 61000-6-4, EN 50121-12
<ul style="list-style-type: none"> • for immunity to EMC 	EN 61000-6-2, EN 50121-4
<ul style="list-style-type: none"> • for safety / from CSA and UL 	UL 60950-1 E115352, UL-61010-2 E85972

standards, specifications, approvals / hazardous environments

certificate of suitability	
<ul style="list-style-type: none"> • ATEX 	Yes
<ul style="list-style-type: none"> • UKEX 	Yes
<ul style="list-style-type: none"> • IECEx 	Yes
<ul style="list-style-type: none"> • ULhazloc approval 	Yes
<ul style="list-style-type: none"> • CCC / for hazardous zone according to GB standard 	Yes
<ul style="list-style-type: none"> • FM registration 	Yes

standards, specifications, approvals / other

certificate of suitability	
<ul style="list-style-type: none"> • RoHS conformity 	Yes
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes

standards, specifications, approvals / marine classification

Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) 	Yes
<ul style="list-style-type: none"> • French marine classification society (BV) 	Yes
<ul style="list-style-type: none"> • Chinese Classification Society (CCS) 	Yes
<ul style="list-style-type: none"> • DNV GL 	Yes
<ul style="list-style-type: none"> • Korean Register of Shipping (KRS) 	Yes
<ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) 	Yes
<ul style="list-style-type: none"> • Nippon Kaiji Kyokai (NK) 	Yes
<ul style="list-style-type: none"> • Polski Rejestr Statkow (PRS) 	Yes
<ul style="list-style-type: none"> • Royal Institution of Naval Architects (RINA) 	Yes

standards, specifications, approvals / Environmental Product Declaration

Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
<ul style="list-style-type: none"> • total 	339.9 kg
<ul style="list-style-type: none"> • during manufacturing 	57.33 kg
<ul style="list-style-type: none"> • during operation 	281.79 kg
<ul style="list-style-type: none"> • after end of life 	0.76 kg

product functions / general

MTBF	46 a
reference code	
<ul style="list-style-type: none"> • according to IEC 81346-2 	KF
<ul style="list-style-type: none"> • according to IEC 81346-2:2019 	KFE
Warranty period	5 a

further information / internet links

internet link	
<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> • to website: Industrial communication 	https://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to web page: SiePortal 	https://sieportal.siemens.com/
<ul style="list-style-type: none"> • to website: Image database 	https://www.automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAX-Download-Manager 	https://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	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			KC		
For use in hazardous locations			Marine / Shipping			
	FM	CCC-Ex				
Marine / Shipping			Environment	Industrial Communication		
		CCS (China Classification Society)			PROFINET	

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