## **SIEMENS**

## **Data sheet**



SCALANCE XC216 manageable Layer 2 IE switch; IEC 62443-4-2 certified; 16X 10/100 Mbit/s RJ45 ports; 1x console port, diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C; assembly: DIN rail/S7 mounting rail/wall Office redundancy functions features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-plug slot;

product type designation	SCALANCE XC216	
transfer rate		
transfer rate	10 Mbit/s, 100 Mbit/s	
interfaces / for communication / maximum configuration for modular devices		
number of electrical ports / maximum	16	
interfaces / for communication / integrated		
number of electrical connections		
<ul> <li>for network components or terminal equipment</li> </ul>	16; RJ45	
number of 10/100 Mbit/s RJ45 ports / integrated		
with securing collar	16	
interfaces / other		
number of electrical connections		
• for operator console	1	
for signaling contact	1	
<ul><li>for power supply</li></ul>	1	
type of electrical connection		
• for operator console	RJ11	
<ul> <li>for signaling contact</li> </ul>	2-pole terminal block	
<ul><li>for power supply</li></ul>	4-pole terminal block	
design of the removable storage		
• C-PLUG	Yes	
signal inputs/outputs		
operating voltage / of the signaling contacts		
at DC / rated value	24 V	
operational current / of the signaling contacts		
at DC / maximum	0.1 A	
supply voltage, current consumption, power loss		
product component / connection for redundant voltage supply	Yes	
type of voltage / 1 / of the supply voltage	DC	
<ul> <li>supply voltage / 1 / rated value</li> </ul>	24 V	
<ul><li>power loss [W] / 1 / rated value</li></ul>	6.6 W	
<ul> <li>consumed current / 1 / at rated supply voltage / maximum</li> </ul>	0.275 A	
<ul> <li>supply voltage / 1 / rated value</li> </ul>	9.6 31.2 V	
<ul><li>consumed current / 1 / maximum</li></ul>	0.55 A	
<ul> <li>type of electrical connection / 1 / for power supply</li> </ul>	4-pole terminal block	
<ul> <li>product component / 1 / fusing at power supply input</li> </ul>	Yes	
fuse protection type / 1 / at input for supply voltage	2.5 A / 125 V	
ambient conditions		
ambient temperature		
during operation	-40 +70 °C	

a during storage	40 105 °C
during storage     during transport	-40 +85 °C -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	11 20
	compact
design	compact
width	120 mm
height	147 mm
depth	125 mm
net weight	0.8 kg
material / of the enclosure	Polycarbonate (PC-GF10) / pressure die cast aluminum
fastening method	V
35 mm top hat DIN rail mounting	Yes
wall mounting	Yes
S7-300 rail mounting	Yes
S7-1500 rail mounting	Yes
product features, product functions, product components / gene	
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 function / QoS according to DSCP	Yes
product feature	
<ul> <li>Cut Through switching method</li> </ul>	No
Store & Forward switching method	Yes
product functions / management, configuration, engineering	
product function	
• CLI	Yes
<ul> <li>web-based management</li> </ul>	Yes
MIB support	Yes
• TRAPs via email	Yes
<ul><li>configuration with STEP 7</li></ul>	Yes
• RMON	Yes
SMTP server	No
<ul> <li>port mirroring</li> </ul>	Yes
<ul> <li>multiport mirroring</li> </ul>	Yes
• CoS	Yes
PROFINET IO diagnosis	Yes
PROFINET conformity class	В
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	1632 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	
I&M0 - device-specific information	Yes
I&M1 - higher level designation/location designation	Yes
product functions / diagnostics	
product function	

<ul> <li>port diagnostics</li> </ul>	Yes
<ul> <li>statistics Packet Size</li> </ul>	Yes
<ul> <li>statistics packet type</li> </ul>	Yes
• error statistics	Yes
SysLog	Yes
product functions / VLAN	
product function	
<ul> <li>VLAN - port based</li> </ul>	Yes
<ul> <li>VLAN - protocol-based</li> </ul>	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)	35
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	
<ul> <li>of the PROFINET IO device / is supported / PROFINET system redundancy</li> </ul>	Yes
• ring redundancy	Yes
<ul> <li>High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul> <li>media redundancy protocol (MRP) with redundancy manager</li> </ul>	Yes
<ul> <li>Media Redundancy Protocol Interconnection (MRP-I)</li> </ul>	Yes
<ul> <li>of the PROFINET IO device / is supported / H-Sync forwarding</li> </ul>	Yes
• redundancy procedure STP	Yes
<ul> <li>redundancy procedure RSTP</li> </ul>	Yes
<ul> <li>redundancy procedure RSTP+</li> </ul>	Yes
• redundancy procedure MSTP	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	No
passive listening	Yes
protocol / is supported	
• LACP	Yes
product functions / security	
product function	
• IEEE 802.1x (radius)	Yes
<ul> <li>broadcast/multicast/unicast limiter</li> </ul>	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	
IT security for industrial automation systems / according to IEC	Yes
62443-4-2:2019	
MTBF	48 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 50121-4
• 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	
• ATEX	Yes; EN 60079-0, EN 60079-15
<ul><li>for ATEX / as marking</li></ul>	II 3 G Ex nA II T4 Gc
for ATEX / as certificate	KEMA 07ATEX0145 X
• IECEx	Yes; IEC 60079-0, IEC 60079-15
for IECEx / as marking	Ex nA II T4 Gc
<ul> <li>for IECEx / as certificate</li> </ul>	IECEx DEK 14.0025X
CCC / for hazardous zone according to GB standard	Yes
<ul> <li>for cULus HazLoc / as marking</li> </ul>	CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4
<ul> <li>for cULus HazLoc / as File Nr.</li> </ul>	E240480 (NWHP, NWHP7)
● FM registration	Yes; FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004
● for FM / as marking	CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C
for FM / as certificate	FM16US0205X
standards, specifications, approvals / other	
certificate of suitability	
<ul> <li>railway application in accordance with EN 50121-4</li> </ul>	Yes
<ul> <li>Regulatory Compliance Mark (RCM)</li> </ul>	Yes
• for UL 61010-2-201 / as File Nr.	E85972 (NRAQ, NRAQ7)
• for UL 60950-1 / as File Nr.	E115352 (NWGQ, NWGQ7)
EAC approval	Yes
standards, specifications, approvals / marine classification	
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	Yes
• DNV GL	Yes
Korean Register of Shipping (KRS)	Yes
Lloyds Register of Shipping (LRS)	Yes
Nippon Kaiji Kyokai (NK)	Yes
Polski Rejestr Statkow (PRS)	Yes
Royal Institution of Naval Architects (RINA)	Yes
accessories	
product extension / optional / C-PLUG	Yes
further information / internet-Links	
Internet-Link	
<ul><li>to web page: selection aid TIA Selection Tool</li></ul>	http://www.siemens.com/tia-selection-tool
• to website: Industrial communication	http://www.siemens.com/simatic-net
to website: Industry Mall	https://mall.industry.siemens.com
	http://www.siemens.com/industry/infocenter
<ul> <li>to website: Information and Download Center</li> </ul>	
<ul> <li>to website: Information and Download Center</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> </ul>	http://www.siemens.com/bilddb http://www.siemens.com/cax

<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemens.com
security information	
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