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Data sheet

6GK5216-0BA00-2AC2



SCALANCE XC216 managed Layer 2 IE switch; IEC 62443-4-2 certified; 16x 10/100 Mbps RJ45 ports; 1x console port, diagnostics LED; redundant power supply; temp. range -40 °C to +70 °C; mounting: 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 / 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	16	
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	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
supply voltage / 1 / rated value	24 V
• power loss [W] / 1 / rated value	6.6 W
 consumed current / 1 / at rated supply voltage / maximum 	0.275 A
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 	4-pole terminal block
 product component / 1 / fusing at power supply input 	Yes
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	95 %
operation / maximum	ID20
protection class IP	IP20
design, dimensions and weights	
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	Yes
35 mm top hat DIN rail mounting well mounting	Yes
wall mounting	
• 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	50	
reconfiguration time of <\~0.3\~s		
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	
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	
• 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
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	
Security for industrial automation and control	Yes
systems / acc. to IEC 62443-4-2:2019	
MTBF	48 y
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

for ATEX / as marking
 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

• for IECEx / as certificate IECEx DEK 14.0025X

• for cULus HazLoc / as marking CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4

• for cULus HazLoc / as File Nr. 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

• railway application in accordance with EN Yes

50121-4

Regulatory Compliance Mark (RCM)

• 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.
 Yes

(ABS)

• French marine classification society (BV) 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)

accessories

product extension / optional / C-PLUG Yes

further information / internet-Links

Internet-Link

• to website: Selector TIA Selection Tool http://www.siemens.com/snst

• to website: Industrial communication http://www.siemens.com/simatic-net

Yes

• to website: Industry Mall https://mall.industry.siemens.com

• to website: Information and Download Center

• to website: Image database

• to website: CAx-Download-Manager

• to website: Industry Online Support

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

security information

security information

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