SIEMENS

Data sheet

6GK5216-4GS00-2TC2



SCALANCE XC216-4C G (E/IP) manageable layer 2 IE Switch; Full Gigabit; 12x 10/100/1000 Mbps RJ45 ports; 4x 1000 Mbps combo ports (either 1000 Mbps s SFPs or 10/100/1000 Mbps RJ45 ports can be used); 1x console port; Diagnostic LED; redundant power supply; Temp. range -40 °C to +70 °C; Mounting: Standard mounting rail/S7 mounting rail/wall; redundancy functions; office features (RSTP, VLAN ,...); PROFINET IO Device; Ethernet/IP conformity; C-PLUG shaft; Default EtherNet/IP

Product type designation	SCALANCE XC216-4C G (E/IP def.)
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 10/100/1000 Mbit/s RJ45 ports / Integrated	16
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
Interfaces / other	
Number of electrical connections	
 for operator console 	1
 for signaling contact 	1
 for power supply 	1

for redundant voltage 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	
Type of voltage / of the supply voltage	DC
Supply voltage	
● external	24 V
• external / minimum	9.6 V
• external / maximum	31.2 V
Supply voltage / 4 / Rated value	
Consumed current / 4 / at rated supply voltage /	0.55 A
maximum	
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	3.15 A / 125 V
Power loss [W]	
• at DC / at 24 V	13.2 W
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
Mounting type	
• 35 mm 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	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		

Yes Yes Yes Yes Yes No
Yes Yes Yes No
Yes Yes Yo
Yes Yes No
Yes No
No
/20
res
Yes
Yes
Yes
3
Yes
1632 byte
Yes
Yes
Yes
Yes
No
Yes
YYY3Y11 YYYYYYYYY

• I&M0 - device-specific information Yes • I&M1 - higher-level designation/location designation Yes Product functions / Diagnostics Product function • Product function Yes • Statistics Packet Size Yes • Statistics packet type Yes • Statistics packet type Yes • Statistics packet type Yes • SysLog Yes Product functions / VLAN Product function • VLAN - protocol-based No • VLAN - fordicol-GOVEN Product function • Protocol / Is supported / GVRP Yes • DHCP Server Yes • DHCP Server Yes • DHCP Option 82 Yes • DHCP Option 63 Yes • DHCP Option 64 Yes • DHCP Option 67 Yes	Identification & maintenance function	
designation	 I&M0 - device-specific information 	Yes
Product functions / Diagnostics Yes Product function Yes • Statistics Packet Size Yes • Statistics packet type Yes • Errors tatistics Yes • Systog Yes Product functions / VLAN Product functions / VLAN Product functions / VLAN Product functions / VLAN Product functions / VLAN Yes • VLAN - port based No • VLAN - protocol-based No • VLAN - IP-based No Number of VLANs / maximum 257 Number of VLANs / maximum 257 Protocol / is supported / GVRP Yes Product functions / DCP Yes Product function - • DHCP Server Yes • DHCP Option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes • Product function - • of the PROFINET IO device / is supported / Yes • High Speed Redundancy Protocol (HRP) Yes <t< td=""><td> I&M1 – higher-level designation/location </td><td>Yes</td></t<>	 I&M1 – higher-level designation/location 	Yes
Product function Yes • Port diagnostics Yes • Statistics Packet Size Yes • Statistics packet type Yes • SysLog Yes Product functions / VLAN Product function • VLAN - port based Yes • VLAN - protocol-based No • VLAN - protocol-based No • VLAN - protocol-based No • VLAN - Probased No • VLAN - IP-based No • VLAN - Gynamic / maximum 257 Number of VLANs / dynamic / maximum 257 Product function 257 Product function Yes • DHCP Server Yes • DHCP Server Yes • DHCP Option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes • Product function Yes • Ing redundancy Yes • High Speed Redundancy protocol (HRP) with redundancy protocol (HRP) with redundancy protocol (HRP) with redundancy protocol (HRP	designation	
• Port diagnostics Yes • Statistics Packet Size Yes • Statistics packet type Yes • Error statistics Yes • SysLog Yes Product functions / VLAN Yes Product function Yes • VLAN - port based Yes • VLAN - port based No • VLAN - port based No • VLAN - protocol-based No • VLAN - IP-based No • VLAN - IP-based Yes Product function 257 Protocol / Is supported / GVRP Yes Product function 257 Product function / DHCP Yes Product function Yes • DHCP Option 82 Yes • DHCP Option 82 Yes • DHCP Option 67 Yes Product function Yes • OHCP Option 67 Yes Product function Yes • DHCP Option 67 Yes Product function Yes • DHCP Option 67 Yes Product function Yes • DHCP Option 67 Yes • DHCP Option 67 Yes • DHCP Option 67 Yes • High Speed Redundancy Protocol (HRP) with redundan	Product functions / Diagnostics	
 Statistics Packet Size Statistics Packet Size Statistics Packet Size Statistics Packet Size SysLog Yes Product function VLAN - protocol-based VLAN - protocol-based VLAN - protocol-based VLAN - protocol-based No VLAN - protocol-based No VLAN - protocol-based No VLAN - protocol-based No Product function / maximum 257 Number of VLANs - dynamic / maximum 257 Product function / GVRP Yes Product function DHCP Parver Yes DHCP Option 82 Yes DHCP Option 66 Yes DHCP Option 67 Yes Product function of the PROFINET 10 device / is supported / PROFINET vise medundancy (S2) Ring redundancy Yes High Speed Redundancy protocol (HRP) with redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy protocol (HRP) with redundancy protocol (HRP) with standby redundancy protocol (MRP) with Yes High Speed redundancy protocol (HRP) with standby redundancy protocol (MRP) with Yes 	Product function	
Statistics packet type Statistics packet type Error statistics Yes SysLog Yes Product functions / VLAN Product function VLAN - pot based Yes VLAN - pot based Ves VLAN - pot based No VLAN - protocol-based No VLAN - protocol / GVRP Yes Product function DHCP server Yes DHCP Option 62 Yes DHCP Option 62 Yes DHCP Option 65 Yes DHCP Option 67 Yes Product function of the PROFINET IO device / is supported / Yes High Speed Redundancy Protocol (HRP) Yes High Speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy Protocol / is supported / Media Redundancy Protocol (MRP) Product function media redundancy protocol (MRP) with Yes	 Port diagnostics 	Yes
Error statistics Forduct functions / VLAN Product functions / VLAN Product function VLAN - port based Ves VLAN - protocol-based No VLAN - protocol-based Ves Protocol / is supported / MRP Ves Product function of the PROFINET IO device / is supported / Yes Product function of the PROFINET IO device / is supported / Yes Product function of the PROFINET IO device / is supported / Yes Product function of the PROFINET IO device / is supported / Yes Product function of the PROFINET IO device / is supported / Yes High Speed redundancy Protocol (HRP) Yes High Speed redundancy protocol (HRP) Yes high speed redundancy protocol (HRP) with standby redundancy Protocol / is supported / Media Redundancy Protocol Yes Product function media redundancy protocol (MRP) with Yes	Statistics Packet Size	Yes
SysLog Yes Product function Yes • VLAN - port based Yes • VLAN - protocol-based No • VLAN - protocol-based No • VLAN - IP-based No Number of VLANs / maximum 257 Number of VLANs - dynamic / maximum 257 Product functions / DHCP Yes Product function 257 • DHCP server Yes • DHCP client Yes • DHCP Option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes Product function Yes • DHCP Option 67 Yes Product function Yes • DHCP Option 67 Yes Product function Yes • of the PROFINET IO device / is supported / 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 Product function Yes • high speed redundancy protocol (HRP) with standby redundancy protocol (MRP) with Yes	 Statistics packet type 	Yes
Product functions / VLAN Product function • VLAN - port based • VLAN - protocol-based No • VLAN - IP-based No Number of VLANs / maximum 267 Number of VLANs - dynamic / maximum 257 Protocol / is supported / GVRP Yes Product functions / DHCP Product function / DHCP Product function • DHCP server Yes • DHCP Option 82 • DHCP Option 66 Yes • DHCP Option 67 Yes Product function • of the PROFINET IO device / is supported / Yes • High Speed redundancy Protocol (HRP) Yes • high speed redundancy protocol (HRP) with redundancy • high speed redundancy protocol (HRP) with standby redundancy • high speed redundancy protocol (HRP) with standby redundancy Protocol / is supported / Media Redundancy Protocol Yes Protocol / is supported / Media Redundancy Protocol Product function • media redundancy protocol (MRP) with	Error statistics	Yes
Product function VLAN - port based 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 Option 82 Yes DHCP Option 66 Yes Product function Yes Product function Yes Product function (S2) Yes Product function Yes Yes Product function Yes Yes Product function Yes Yes	 SysLog 	Yes
• VLAN - port basedYes• VLAN - protocol-basedNo• VLAN - IP-basedNoNumber of VLANs / maximum257Number of VLANs - dynamic / maximum257Protocol / is supported / GVRPYesProduct functions / DHCPYesProduct functionYes• DHCP option 82Yes• DHCP Option 66Yes• DHCP Option 67YesProduct function •Yes• DHCP Option 7Yes• DHCP Option 82Yes• DHCP Option 64Yes• DHCP Option 7Yes• DHCP Option 7Yes• DHCP Option 7Yes• No 1Yes• No 1		
• 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 Yes Product function • DHCP server • DHCP option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes Product function Yes • DHCP Option 77 Yes Product functions / redundancy Yes • DHCP Option 67 Yes Product function Yes • fing redundancy Yes • fing redundancy Yes • high speed redundancy protocol (HRP) with redundancy protocol (HRP) with standby redundancy • high speed redundancy protocol (HRP) with standby redundancy Product function Yes • high speed redundancy protocol (MRP) with • media redundancy protocol (MRP) with <td>Product function</td> <td></td>	Product function	
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Number of VLANs / maximum 257 Number of VLANs - dynamic / maximum 257 Protocol / is supported / GVRP Yes Product functions / DHCP Yes Product function 0 DHCP server • DHCP lient Yes • DHCP Option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes Product function Yes • DHCP Option 67 Yes Product function Yes • DHCP Option 67 Yes Product function Yes • Of the PROFINET IO device / is supported / PROFINET system redundancy (S2) Yes • Ring redundancy Yes • High Speed Redundancy Protocol (HRP) with redundancy manager Yes • high speed redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy Protocol (HRP) with standby redundancy Protocol (MRP) with Yes Protoct / is supported / Media Redundancy Protocol (MRP) Yes Product function Yes	 VLAN - protocol-based 	No
Number of VLANs - dynamic / maximum 257 Protocol / is supported / GVRP Yes Product functions / DHCP Yes Product function 9 • DHCP server Yes • DHCP Option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes Product functions / redundancy Yes Product function Yes • DHCP Option 67 Yes Product function Yes • DHCP Option 67 Yes Product function Yes • DHCP Option 67 Yes Product function Yes • Of the PROFINET IO device / is supported / PROFINET system redundancy (S2) Yes • High Speed Redundancy Protocol (HRP) with redundancy protocol (HRP) with redundancy manager Yes • high speed redundancy protocol (HRP) with standby redundancy Yes Protocol / is supported / Media Redundancy Protocol (MRP) with standby redundancy Yes Product function Yes	 VLAN - IP-based 	No
Protocol / is supported / GVRP Yes Product function Product function Yes • DHCP server Yes • DHCP Option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes Product functions / redundancy Yes Product function Yes • of the PROFINET IO device / is supported / PROFINET system redundancy (S2) 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 Yes	Number of VLANs / maximum	257
Product function Product function • DHCP server Yes • DHCP client Yes • DHCP Option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes Product functions / redundancy Yes Product function Yes • of the PROFINET IO device / is supported / PROFINET system redundancy (S2) Yes • Ring redundancy 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 Yes • media redundancy protocol (MRP) with Yes	Number of VLANs - dynamic / maximum	257
Product function DHCP server Yes DHCP Olient Yes DHCP Option 82 DHCP Option 66 Yes Product functions / redundancy Yes Product function of the PROFINET IO device / is supported / PROFINET system redundancy (S2) Ring redundancy Yes High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy Protocol / is supported / Media Redundancy Protocol (MRP) Yes Product function media redundancy protocol (MRP) with Yes 	Protocol / is supported / GVRP	Yes
DHCP serverYes• DHCP clientYes• DHCP Option 82Yes• DHCP Option 66Yes• DHCP Option 67YesProduct functions / redundancy• of the PROFINET IO device / is supported / PROFINET system redundancy (S2)Yes• Ring redundancyYes• high speed redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with standby redundancyYes• high speed redundancy protocol (HRP) with standby redundancyYes• hold is supported / Media Redundancy Protocol (MRP)Yes• media redundancy protocol (MRP) with • media redundancy protocol (MRP) withYes• media redundancy protocol (MRP) with • media redundancy protocol (MRP) withYes• media redundancy protocol (MRP) with • media redundancy protocol (MRP) withYes• media redundancy protocol (MRP) with • media redundancy protocol (MRP) withYes		
DHCP client Yes DHCP Option 82 Yes DHCP Option 66 Yes DHCP Option 67 Yes Product function redundancy Product function ing redundancy Protocol (HRP) with standby redundancy Protocol / is supported / Media Redundancy Protocol (MRP) Product function ing redundancy protocol (MRP) with Yes	Product function	
• DHCP Option 82Yes• DHCP Option 66Yes• DHCP Option 67YesProduct functions / redundancyYesProduct functionYes• of the PROFINET IO device / is supported / PROFINET system redundancy (S2)Yes• Ring redundancyYes• High Speed Redundancy Protocol (HRP)Yes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYesProtocol / is supported / Media Redundancy Protocol (MRP)YesProtocol / is supported / Media Redundancy Protocol (MRP) withYesProduct function • media redundancy protocol (MRP) with • Media redundancy protocol (MRP) withYes		Yes
DHCP Option 66 Yes DHCP Option 67 Yes Product functions / redundancy Product function of the PROFINET IO device / is supported / Yes PROFINET system redundancy (S2) Ring redundancy Yes High Speed Redundancy Protocol (HRP) Yes high speed redundancy protocol (HRP) with Yes redundancy manager high speed redundancy protocol (HRP) with Yes redundancy for the function Yes Protocol / is supported / Media Redundancy Protocol (MRP) Product function media redundancy protocol (MRP) with Yes	DHCP client	Yes
• DHCP Option 67 Yes Product functions / redundancy Product function • of the PROFINET IO device / is supported / PROFINET system redundancy (S2) 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 Yes • media redundancy protocol (MRP) with Yes	DHCP Option 82	Yes
Product functions / redundancy Product function • of the PROFINET IO device / is supported / PROFINET system redundancy (S2) • 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 Yes • media redundancy protocol (MRP) with Yes	DHCP Option 66	Yes
Product function Yes • of the PROFINET IO device / is supported / PROFINET system redundancy (S2) 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 Yes	DHCP Option 67	Yes
• of the PROFINET IO device / is supported / PROFINET system redundancy (S2)Yes• Ring redundancyYes• High Speed Redundancy Protocol (HRP)Yes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy protocol (HRP) with et and by redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy protocol (HRP) with 		
PROFINET system redundancy (S2) 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 Yes • media redundancy protocol (MRP) with Yes	Product function	
 High Speed Redundancy Protocol (HRP) High Speed redundancy protocol (HRP) with redundancy manager High speed redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy Protocol / is supported / Media Redundancy Protocol Product function media redundancy protocol (MRP) with Yes 		Yes
 high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy Protocol / is supported / Media Redundancy Protocol (MRP) Product function media redundancy protocol (MRP) with Yes 	Ring redundancy	Yes
redundancy manager • high speed redundancy protocol (HRP) with standby redundancy Protocol / is supported / Media Redundancy Protocol (MRP) Product function • media redundancy protocol (MRP) with Yes	 High Speed Redundancy Protocol (HRP) 	Yes
standby redundancy Yes Protocol / is supported / Media Redundancy Protocol (MRP) Yes Product function Yes • media redundancy protocol (MRP) with Yes		Yes
(MRP) Product function • media redundancy protocol (MRP) with Yes		Yes
media redundancy protocol (MRP) with Yes		Yes
	Product function	
	 media redundancy protocol (MRP) with redundancy manager 	Yes

 of the PROFINET IO device / is supported / H- Sync forwarding 	Yes
 redundancy procedure STP 	Yes
 redundancy procedure RSTP 	Yes
 redundancy procedure MSTP 	Yes
Parallel Redundancy Protocol (PRP)/operation	Yes
in the PRP-network	
 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	46 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 50121-15
• for immunity to EMI	EN 61000-6-2, EN 50121-15

Certificate of suitability / RoHS conformity

last modified:

Yes; 2011/65/EU

05/13/2020