SIEMENS

Data sheet

6GK5216-4GS00-2AC2



SCALANCE XC216-4C G manageable Layer 2 IE switch; IEC 62443-4-2 certified; full gigabit; 12x 10/100/1000 Mbps RJ45 ports; 4x 1000 Mbps combo ports (either 1000 Mbps/ SFPs or 10/100/1000 Mbps 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; IEEE 1588v2 PTP

product type designation	SCALANCE XC216-4C G
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
interfaces / for communication / maximum configuration for	or 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 10/100/1000 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 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 	Yes

• Interpretation • SUPP / 29 'V • antion conditions • 40 + 70 'C • auting storage • 40 + 85 'C • auting storage • 65 'K • auting storage • 60 'K • auting storage <td< th=""><th>• fuse protection type / 1 / at input for supply voltage</th><th>3.15 A / 125 V</th></td<>	• fuse protection type / 1 / at input for supply voltage	3.15 A / 125 V
anti-int imperature -40 -470 °C • using strange -40 -45 °C • using strange -40 -40 • using	fuse protection type / 1 / at input for supply voltage ambiant conditions	0.10 A / 120 V
• during torange-40+70 °C• during transport-40+45 °C• during transport95 %• during transport95 %• during transport95 %• design dimensions and weightscompactdesign dimensions and weightsformdesign dimensionsformdesign dimensionsformdesign dimensionsformestanting find compactformestanting find compactformestanting find compactformestanting find case of a refundancy find find andestanting find case of a refundancy find find andestanting find cases of a stratopologyany (depending only on signal propagation time)product fauturesformestanting find compactformestanting find find find find find find find find		
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• etuno fransaport• 45 °C• etable humbly95 %• restore to a code sale for during operation / maximum96 %• protection class IP120• designcompact• design000000000000000000000000000000000		
relate number of the set of the s		
• 125 °C / without condensation / uning operation / maximum96 %pretection class IPIP20design, dimensions and verghtscompactdesign, dimensions and verghtscompactwidth140 mmheight100 mmdepth125 mmnet weight124 mmret weight124 mmret weight125 mmret weight125 mmret weight12 kgret weight12 kgret weight12 kgret weight12 kgret weight12 kgestaming methodresestaming methodresestaming method50reconfiguration time of <-0.3 m		-40705.0
maximumprotection class IPIP20designcompactwith140 nm1height150 nmdepth12 kmnet weight12 kgmaterial / of the enclosurePulycationata (PC-GF10) / pressure die cast aluminumfastering methodYes• 55 mt by hat DIN rainYes• 55 mt by hat DIN rainYes• 57 mt by rainYes• 50 mt by rainYes• 10 mt by rainYes• 50 mt by rainYes• 10 mt by rainYes	-	95 %
design compact design compact width 140 nm height 150 nm depth 12 kg material / of the enclosure Polycarbonate (PC-GF10) / pressure die cast aluminum fastening method 745 • 37 mn top hat DN rail mounting Yes • 37 mn top hat DN rail mounting Yes • 57-300 rail mounting Yes • 57-7300 rail mounting Yes • 500 carbona time of +0-0.3 -s 50 reconfiguration time of +0.0 Store & Forward switching method No • Clu Veb based management Yes </td <td></td> <td></td>		
design compact width 140 mm height 160 mm depth 125 mm naterial / of the enclosure Polycarbonate (PC-GF10) / pressure die cast aluminum fastening method 9 • 35 mn top hat DIN rail mounting Yes • vall mounting Yes • S7 300 rail mounting Yes • 57 300 rail mounting Yes reconfiguration the of <-0.3-5	protection class IP	IP20
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depin net weight12 kgnet weight1.2 kgmaterial / of the enclosureYes• 35 mm top hat 10N rai mountingYes• 35 mm top hat 10N rai mountingYes• 35.7500 rail mountingYes• 57.1500 rail mountingYes• 57.1500 rail mountingYes• 57.1500 rail mountingYes• 57.1500 rail mountingany (depending only on signal propagation time)product function / QoS according to DSCPYes• Cut Through switching methodNo• Cut Through switching methodYes• Cut Through switching methodYes	width	140 mm
naterial / of the enclosure Polycarbonate (PC-GF10) / pressure die cast aluminum fastening method Polycarbonate (PC-GF10) / pressure die cast aluminum * 35 mm top hat DN rail mounting Yes • wall mounting No * 35 7.300 rail mounting Yes * or all mounting Yes product fastures, product functions, product components / general Formal casseding in the case of a redundant ring / at reconfiguration time of <-0.3 - 3 - %	height	150 mm
meteral fastering methodPolycathonate (PC-GF 10) / pressure die cast aluminumfastering methodYes• S3 mm top hat DIN rail mountingYes• S7-500 rail mountingYes• S7-500 rail mountingYescascading in the case of a redundant ring / at reconfiguration time of <-0.3)-S	depth	125 mm
festening method Yes • 35 mm top hat DIN rail mounting No • S7 300 rail mounting Yes • S7 300 rail mounting Yes product features, product functions, product components / general Image: Components / general cascading in the case of a redundant ring / at reconfiguration / aoS according to DSCP Yes product features, product functions, product components / general Image: Component / Component / Component / Yes product feature Yes • Cut Through switching method No • Store & Forward switching method Yes • Cut Through switching method Yes • Cut Inctions / management, configuration, engineering Yes product function Yes • CUI Yes • Cut Incolon Yes • CUI Yes • Cution Yes • Cution with STEP 7 Yes •	net weight	1.2 kg
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• wall mountingNo• \$7-300 rall mountingYes• \$7-300 rall mountingYesproduct factures, product functions, product components / generalcescading in the case of a redundant ring / at reconfiguration time of <-0.3)-s		
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product features, product functions, product components / general 50 cascading in the case of a redundant ring / at reconfiguration time of <-0.3v-s	-	
cascading in the case of a redundant ring / at reconfiguration time of <-0.3V-s	5	
reconfiguration time of <<-0.3+s and a second secon		
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product function / QoS according to DSCP Yes product feature	-	any (depending only on signal propagation time)
product feature No Cut Through switching method No Store & Forward switching method Yes product function product function Yes out of function Yes • CLI Yes • web-based management Yes • MB support Yes • TRAPs via email Yes • configuration with STEP 7 Yes • RMON Yes • SMTP server No • port mirroring Yes • COS Yes • PROFINET IO diagnosis Yes • PROFINET conformity class B • Retwork load class / according to PROFINET 3 • Product function / switch-managed Yes • telegram length / for Ethernet / maximum 10240 byte • Trinet Yes • HITTP Yes • HITTP Yes • EtherNet/IP Yes • EtherNet/IP Yes • EtherNet/IP Yes • EtherNet/IP Yes		
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• Store & Forward switching method Yes product functions / management. / • 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 • CSA Yes • PROFINET IO diagnosis Yes • PROFINET IO diagnosis Yes • PROFINET IO diagnosis Yes • Product function / switch-managed Yes • retwork load class / according to PROFINET 3 protuct / instrumm 10240 byte protuct / instrumm Yes • Telnet Yes • TIP Yes • HITTP Yes • GMRP Yes • EtherNet/IP Yes • EtherNet/IP Yes • SIMP v1 Yes • SIMP v2 Yes • SIMP v3 Yes •	•	No
product functions / management, configuration, engineering product function • CLI Yes • web-based management Yes • TRAPs via email Yes • onfiguration with STEP 7 Yes • RMON Yes • SMTP server No • port mirroring Yes • multiport mirroring Yes • CoS Yes • PROFINET IO diagnosis Yes PROFINET conformity class B network load class / according to PROFINET 3 product function / switch-managed Yes • Telnet Yes • Telnet Yes • TETP Yes • BOOTP No • GMRP Yes • TETP Yes • DCP Yes • DCP Yes • LDP Yes • LDP Yes • SIMMP V1 Yes • SIMMP V2 Yes • SIMMP V3 Yes • SIMMP V3		
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• RMON Yes • SMTP server No • port mirroring Yes • multiport mirroring Yes • CoS Yes • PROFINET IO diagnosis Yes • PROFINET on formity class B product function / switch-managed Yes product function / switch-managed Yes telegram length / for Ethernet / maximum 10240 byte protocol / is supported Yes • Telnet Yes • Telnet Yes • TETP Yes • HTTPS Yes • TFTP Yes • GMRP Yes • GMRP Yes • LDP Yes • LDP Yes • EtherNet/IP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • SNMP v3 Yes • GMRP (snooping/querier) Yes • SNMP v3 Yes • SNMP v3 Yes • GMRP		Yes
• RMON Yes • SMTP server No • port mirroring Yes • multiport mirroring Yes • CoS Yes • PROFINET IO diagnosis Yes • PROFINET on formity class B product function / switch-managed Yes product function / switch-managed Yes telegram length / for Ethernet / maximum 10240 byte protocol / is supported Yes • Telnet Yes • Telnet Yes • TETP Yes • HTTPS Yes • TFTP Yes • GMRP Yes • GMRP Yes • LDP Yes • LDP Yes • EtherNet/IP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • SNMP v3 Yes • GMRP (snooping/querier) Yes • SNMP v3 Yes • SNMP v3 Yes • GMRP	 configuration with STEP 7 	Yes
• port mirroringYes• multiport mirroringYes• CoSYes• PROFINET IO diagnosisYes• PROFINET conformity classBnetwork load class / according to PROFINET3product function / switch-managedYestelegram length / for Ethernet / maximum10240 byteprotocol / is supportedYes• TelnetYes• TelnetYes• HTTPSYes• HTTPSYes• HTTPSYes• BOOTPYes• DCPYes• DCPYes• EtherNet/IPYes• EtherNet/IPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yes• IGMP (snooping/querier)Yes• Identification & maintenance functionYes		Yes
• multiport mirroringYes• CoSYes• PROFINET IO diagnosisYesPROFINET conformity classBnetwork load class / according to PROFINET3product function / switch-managedYestelegram length / for Ethernet / maximum10240 byteprotocol / is supportedYes• TelnetYes• TelnetYes• TFIPYes• HTTPSYes• HTTPSYes• BOOTPNo• GMRPYes• DCPYes• LLDPYes• EtherNet/IPYes• SNMP v1Yes• SNMP v2Yes• IGMP (snooping/querier)Yes• IGMP (snooping/querier)Yes• Identification & maintenance functionYes	SMTP server	No
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• PROFINET IO diagnosisYesPROFINET conformity classBnetwork load class / according to PROFINET3product function / switch-managedYestelegram length / for Ethernet / maximum10240 byteprotocol / is supportedYes• TelnetYes• HTTPYes• HTTPSYes• HTTPSYes• BOOTPYes• BOOTPNo• GMRPYes• LLDPYes• EtherNet/IPYes• SNMP v1Yes• SNMP v3Yes• IGMP (snooping/querier)Yes• Idm (snooping/querier)Yes• Idm (snooping/querier)Yes• Identification & maintenance functionYes	 multiport mirroring 	Yes
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• HTTPS Yes • TFTP Yes • BOOTP No • GMRP Yes • DCP Yes • LLDP Yes • EtherNet/IP Yes • SNMP v1 Yes • SNMP v2 Yes • GMP v3 Yes • IGMP (snooping/querier) Yes identification & maintenance function Yes		
• TFTPYes• BOOTPNo• GMRPYes• DCPYes• LLDPYes• EtherNet/IPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yesidentification & maintenance functionYes		
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• SNMP v3 Yes • IGMP (snooping/querier) Yes identification & maintenance function Yes		
IGMP (snooping/querier) Yes identification & maintenance function	• SNMP v2	Yes
identification & maintenance function	• SNMP v3	Yes
	 IGMP (snooping/querier) 	Yes
I&M0 - device-specific information 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	Vea
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)	35
protocol / is supported / GVRP	Yes
	165
product functions / DHCP	
product function	Vee
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
IEEE 1588 profile default	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 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	
standards, specifications, approvals / CE certificate of suitability / CE marking	Yes
	Yes 2014/30/EU
certificate of suitability / CE marking	
certificate of suitability / CE marking product conformity / according to EMC-guideline	
certificate of suitability / CE marking product conformity / according to EMC-guideline standard	2014/30/EU
certificate of suitability / CE marking product conformity / according to EMC-guideline standard • for EMC interference emission	2014/30/EU EN 61000-6-4, EN 50121-13
certificate of suitability / CE marking product conformity / according to EMC-guideline standard • for EMC interference emission • for immunity to EMC	2014/30/EU EN 61000-6-4, EN 50121-13 EN 61000-6-2, EN 50121-4 Yes; 2011/65/EU
certificate of suitability / CE marking product conformity / according to EMC-guideline standard • for EMC interference emission • for immunity to EMC certificate of suitability / RoHS conformity	2014/30/EU EN 61000-6-4, EN 50121-13 EN 61000-6-2, EN 50121-4 Yes; 2011/65/EU
certificate of suitability / CE marking product conformity / according to EMC-guideline standard • for EMC interference emission • for immunity to EMC certificate of suitability / RoHS conformity standards, specifications, approvals / hazardous environn	2014/30/EU EN 61000-6-4, EN 50121-13 EN 61000-6-2, EN 50121-4 Yes; 2011/65/EU
certificate of suitability / CE marking product conformity / according to EMC-guideline standard • for EMC interference emission • for immunity to EMC certificate of suitability / RoHS conformity standards, specifications, approvals / hazardous environm certificate of suitability	2014/30/EU EN 61000-6-4, EN 50121-13 EN 61000-6-2, EN 50121-4 Yes; 2011/65/EU nents
certificate of suitability / CE marking product conformity / according to EMC-guideline standard • for EMC interference emission • for immunity to EMC certificate of suitability / RoHS conformity standards, specifications, approvals / hazardous environn certificate of suitability • CCC / for hazardous zone according to GB standard	2014/30/EU EN 61000-6-4, EN 50121-13 EN 61000-6-2, EN 50121-4 Yes; 2011/65/EU nents
certificate of suitability / CE marking product conformity / according to EMC-guideline standard • for EMC interference emission • for immunity to EMC certificate of suitability / RoHS conformity standards, specifications, approvals / hazardous environn certificate of suitability • CCC / for hazardous zone according to GB standard accessories	2014/30/EU EN 61000-6-4, EN 50121-13 EN 61000-6-2, EN 50121-4 Yes; 2011/65/EU nents
certificate of suitability / CE marking product conformity / according to EMC-guideline standard • for EMC interference emission • for immunity to EMC certificate of suitability / RoHS conformity standards, specifications, approvals / hazardous environn certificate of suitability • CCC / for hazardous zone according to GB standard accessories product extension / optional / C-PLUG	2014/30/EU EN 61000-6-4, EN 50121-13 EN 61000-6-2, EN 50121-4 Yes; 2011/65/EU nents
certificate of suitability / CE marking product conformity / according to EMC-guideline standard • for EMC interference emission • for immunity to EMC certificate of suitability / RoHS conformity standards, specifications, approvals / hazardous environm certificate of suitability • CCC / for hazardous zone according to GB standard accessories product extension / optional / C-PLUG further information / internet-Links	2014/30/EU EN 61000-6-4, EN 50121-13 EN 61000-6-2, EN 50121-4 Yes; 2011/65/EU nents