SIEMENS

Data sheet	6GK5216-3RS00-2AC2

SCALANCE XC216-3G PoE manageable Layer 2 IE PoE Switch; 14x 10, 100/1000 Mbps; RJ45 PoE Ports according to IEEE802.3at; 2 ports thereof according to IEEE802.3bt; IEC 62443-4-2 certified 2x 10/100/1,000 Mbps RJ45; 2x 1,000, 10,000 Mbps SFP+; 1x 1,000 Mbps SFP; PoE support for 24 V DC infeed; 120 W PoE power can be distributed among all PoE ports; 1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +60 °C; mounting on DIN rail/S7 mounting rail /wall; redundancy functions; Office features (RSTP, VLAN, ...); PROFINET device; Ether(*)

product type designation	SCALANCE
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10 Gbit/s
interfaces / for communication / maximum configuration for modular devices	
number of electrical ports / maximum	16
number of electrical ports / with PoE / maximum	14
number of optical ports / maximum	3
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	
● with securing collar	16; 12 PoE ports according to IEEE 802.3at (30 W), 2 PoE ports according to IEEE 802.3bt (60 W)
● with securing collar / with PoE	14
number of electrical connections	
● for SFP	3
interfaces / for communication / plug-in	
number of electrical connections	
● for SFP	1; SFPs with 1000 Mbit/s, 100 Mbit/s with SFP991-1(LD) A possible
● for SFP+	2; SFPs with 1000 Mbit/s or 10,000 Mbit/s possible; 100 Mbit/s with SFP991-1(LD) A possible
interfaces / other	
number of electrical connections	
● for operator console	1
● for signaling contact	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
supplied active power / of PSE / with PoE	
● total / maximum	150 W

11/13/2023

type of voltage / 1 / of the supply voltage	DC
● supply voltage / 1 / rated value	24 V
● power loss [W] / 1 / rated value	28 W
● supply voltage / 1 / rated value	19.2 ... 31.2 V
● consumed current / 1 / maximum	7.8 A
● product component / 1 / fusing at power supply input	Yes
● fuse protection type / 1 / at input for supply voltage	15 A / 125 V

ambient conditions

ambient temperature	
● during operation	-40 ... +60 °C
● during storage	-40 ... +85 °C
● during transport	-40 ... +85 °C
● note	installation position and SFPs used during the operation have to be considered (see manual)
relative humidity	
● at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP20

design, dimensions and weights

design	compact
width	180 mm
height	147 mm
depth	125 mm
net weight	1.56 kg
product feature / conformal coating	No
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 <\~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	
● 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	B
network load class / according to PROFINET	3
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	10240 byte
protocol / is supported	
● Telnet	Yes
● HTTP	Yes
● HTTPS	Yes
● TFTP	Yes

11/13/2023

● 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
number of VLANs / at ring redundancy (HRP; MRP; standby link)	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	

11/13/2023

● 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	
standard	
● for emitted interference	EN 61000-6-4:2001 (Class A)
● for interference immunity	EN 61000-6-2:2001
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
MTBF	24.6 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 50121-15
● 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 IEC 60079-0, EN 60079-7
● for ATEX / as marking	II 3 G Ex ec IIC T4 Gc
● for ATEX / as certificate	DEKRA 18ATEX0025 X
● IECEx	Yes; IEC 60079-0, IEC 60079-7
● for IECEx / as marking	Ex ec IIC T4 Gc
● for IECEx / as certificate	IECEx DEK 18.0017X
● CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
● CCC / for hazardous zone according to GB standard / as marking	Ex nA IIC T4 Gc
● 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.	E223122
● FM registration	FM Class 3600:2022, FM Class 3611:2021, FM Class 3810:2021, ANSI/UL 121201:2021, ANSI/UL 61010-1:2019
● 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	FM19US0167X
standards, specifications, approvals / other	
certificate of suitability	
● KC approval	Yes
● railway application in accordance with EN 50121-4	Yes
● Regulatory Compliance Mark (RCM)	Yes
● for UL 61010-2-201 / as File Nr.	E85972 (NRAQ, NRAQ7)
● EAC approval	Yes

11/13/2023

standards, specifications, approvals / marine classification		
Marine classification association		
● American Bureau of Shipping Europe Ltd. (ABS)	Yes	
● Chinese Classification Society (CCS)	Yes	
● DNV GL	Yes	
● Korean Register of Shipping (KRS)	Yes	
● Lloyds Register of Shipping (LRS)	Yes	
● Polski Rejestr Statkow (PRS)	Yes	
● Royal Institution of Naval Architects (RINA)	Yes	

standards, specifications, approvals / Environmental Product Declaration		
Environmental Product Declaration	Yes	
● Global Warming Potential [CO2 eq] / total	942.3 kg	
● Global Warming Potential [CO2 eq] / during manufacturing	63.42 kg	
● Global Warming Potential [CO2 eq] / during operation	878.11 kg	
● global warming potential [CO2 eq] / after end of life	0.76 kg	

accessories		
product extension / optional / C-PLUG	Yes	

further information / internet links		
internet link		
● to web page: selection aid TIA Selection Tool	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	
● to website: Information and Download Center	http://www.siemens.com/industry/infocenter	
● to website: Selection guide for cables and connectors	https://sie.ag/2QdlxcP	
● to website: Image database	http://automation.siemens.com/bilddb	
● to website: CAx-Download-Manager	http://www.siemens.com/cax	
● to website: Industry Online Support	https://support.industry.siemens.com	

security information		
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under https://www.siemens.com/cert. (V4.6)	

Approvals / Certificates

For use in hazardous locations				Declaration of Conformity	
ATEX-Zone 2-Declaration	IECEx	FM	CCC-Ex	CE EG-Konf.	UKCA

Marine / Shipping

ABS   BUREAU VERITAS   PRS   RINA   DNV·GL   KR KOREAN REGISTER

other

11/13/2023

PROFINET-Certifica-
tion

---

last modified: 11/9/2023 ↗

11/13/2023 ↗