## SIEMENS

## Data sheet

## 6GK5216-3RS00-5AC2



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 54 V DC infeed; 300 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; Etherne(\*)

product type designation	SCALANCE
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10 Gbit/s
interfaces / for communication / integrated	
number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	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)
<ul> <li>with securing collar / with PoE</li> </ul>	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	
<ul> <li>for operator console</li> </ul>	1
for signaling contact	1
type of electrical connection	
<ul> <li>for operator console</li> </ul>	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	54 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	338 W
type of voltage / 1 / of the supply voltage	DC
<ul> <li>supply voltage / 1 / rated value</li> </ul>	54 V
<ul> <li>power loss [W] / 1 / rated value</li> </ul>	28 W

<ul> <li>supply voltage / 1 / rated value</li> </ul>	52 57 V
consumed current / 1 / maximum	6.5 A
<ul> <li>product component / 1 / fusing at power supply input</li> <li>fuse protection type / 1 / at input for supply voltage</li> </ul>	Yes 15 A / 125 V
fuse protection type / 1 / at input for supply voltage     ambient conditions	15 A / 120 V
ambient conditions	
ambient temperature	40 +60 °C
during operation	-40 +60 °C -40 +85 °C
during storage	-40 +85 °C -40 +85 °C
during transport     note	installation position and SFPs used during the operation have to be
	considered (see manual)
relative humidity	
<ul> <li>at 25 °C / without condensation / during operation /</li> </ul>	95 %
maximum	1020
protection class IP	IP20
design, dimensions and weights	compact
design width	compact 140 mm
	140 mm 147 mm
height depth	147 mm 125 mm
depth net weight	125 mm 1.14 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	
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, engineeri	ng
product function	Vee
CLI     web based management	Yes
web-based management     MIR support	Yes Yes
<ul> <li>MIB support</li> <li>TRAPs via email</li> </ul>	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
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
• 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	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
<ul> <li>I&amp;M1 – higher level designation/location designation</li> </ul>	Yes
product functions / diagnostics	
product function	
port diagnostics	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
<ul> <li>redundancy procedure STP</li> </ul>	Yes
<ul> <li>redundancy procedure RSTP</li> </ul>	Yes
<ul> <li>redundancy procedure RSTP+</li> </ul>	Yes
<ul> <li>redundancy procedure MSTP</li> </ul>	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
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	
standard	
<ul> <li>for emitted interference</li> </ul>	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	23 у
reference code	
<ul> <li>according to IEC 81346-2</li> </ul>	KF
<ul> <li>according to IEC 81346-2:2019</li> </ul>	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
product conformity / according to EMC-guideline	2014/30/EU
standard	
<ul> <li>for EMC interference emission</li> </ul>	EN 61000-6-4, EN 50121-15
<ul> <li>for immunity to EMC</li> </ul>	EN 61000-6-2, EN 50121-4
certificate of suitability / RoHS conformity	Yes; 2011/65/EU
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
<ul> <li>to website: Industry Mall</li> </ul>	https://mall.industry.siemens.com
<ul> <li>to website: Information and Download Center</li> </ul>	http://www.siemens.com/industry/infocenter
<ul> <li>to website: Image database</li> </ul>	http://automation.siemens.com/bilddb
<ul> <li>to website: CAx-Download-Manager</li> </ul>	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, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter.

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