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Data sheet 6GK5208-0RA00-5AC2



SCALANCE XC208G PoE Manageable Layer 2 IE PoE Switch; IEC 62443-4-2 certified 6x 10/100/1000 Mbps RJ45 PoE ports acc. to IEEE802.3at ; 2 ports of which according to IEEE802.3bt; 2x 10/100/1000 Mbps RJ45; PoE support for 54 V DC infeed; 240 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; Ethernet/IP-compliant; C-PLUG slot; IEEE 1588v2 PTP

product type designation	
product brand name	SCALANCE
product type designation	XC208G PoE (DC 54V)
Technical Product Detail Page	https://i.siemens.com/1P6GK5208-0RA00-5AC2
transfer rate	
transfer rate	10, 100, 1000 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
● for network components or terminal equipment	8; RJ45
number of 10/100/1000 Mbit/s RJ45 ports	
● with securing collar	2; 4 PoE ports according to IEEE 802.3at (30 W), 2 PoE ports according to IEEE 802.3bt (60 W)
● with securing collar / with PoE	6
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
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	260 W
type of voltage / 1 / of the supply voltage	DC
● supply voltage / 1 / rated value	54 V
● consumed current / 1 / at rated supply voltage / maximum	5 A
● supply voltage / 1 / voltage range	52 ... 57
● consumed current / 1 / maximum	5 A
● fuse protection type / 1 / at input for supply voltage	15 A / 125 V
ambient conditions	
ambient temperature	

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● 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	60 mm
height	147 mm
depth	125 mm
net weight	0.54 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	Yes
● 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
● switch-managed	Yes
PROFINET conformity class	B
network load class / according to PROFINET	III
telegram length / for Ethernet / maximum	10240 byte
protocol / is supported	
● Telnet	Yes
● HTTP	Yes
● HTTPS	Yes
● TFTP	Yes
● SFTP	Yes
● BOOTP	Yes
● GMRP	Yes
● DCP	Yes
● LLDP	Yes
● EtherNet/IP	Yes
● SNMP v1	Yes

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● 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
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	
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; LC mode
● of the PROFINET IO device / is supported / H-Sync forwarding	Yes
● of the PROFINET IO device / is supported / PROFINET system redundancy	Yes
● ring redundancy	Yes
● high speed redundancy protocol (HRP) with redundancy manager	Yes
● high speed redundancy protocol (HRP) with standby redundancy	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
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	Yes
product functions / security	
product function	
● IEEE 802.1x (radius)	Yes
● RADIUS client	Yes

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● 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
standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes
● KC approval	Yes
● Regulatory Compliance Mark (RCM)	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
standards, specifications, approvals / hazardous environments	
certificate of suitability	
● ATEX	Yes
● UKEX	Yes
● IECEx	Yes
● CCC / for hazardous zone according to GB standard	Yes
● FM registration	Yes
standards, specifications, approvals / other	
certificate of suitability	
● railway application in accordance with EN 50121-4	Yes
● RoHS conformity	Yes
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	491.2 kg
● during manufacturing	52.28 kg
● during operation	438.3 kg
● after end of life	0.62 kg
product functions / general	
MTBF	37 a
warranty period	5 a
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://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 cybersecurity functions that support the secure operation of plants, systems, machines and networks.

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Approvals / Certificates

Environmental Product Declaration

● global warming potential [CO2 eq] / during manufacturing	52.28 kg
● global warming potential [CO2 eq] / during operation	438.3 kg
● global warming potential [CO2 eq] / after end of life	0.62 kg
● global warming potential [CO2 eq] / total	491.2 kg

Environment	General Product Approval				
EPD	CE EG-Konf.	EAC	China RoHS	Miscellaneous	RCM

General Product Approval				EMV	For use in hazard-ous locations
TUEV	CE EG-Konf.	China RoHS	UKCA	KC	IECEx IECEx

For use in hazardous locations			Industrial Communication
ATEX	FM	CCC-Ex	PROFINET

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