# SIEMENS

**Data sheet**                                                    **6GK5208-0BA00-2AC2**



SCALANCE XC208 manageable Layer 2 IE switch; IEC 62443-4-2 certified; 8x 10/100 Mbit/s RJ45 ports; 1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C; assembly: DIN rail/S7 mounting rail/wall Office redundancy functions features (RSTP, VLAN,...); PROFINET IO device Ethernet/IP-compliant C-plug slot;

| | |
|---|---|
| **product type designation** | **SCALANCE XC208** |
| **transfer rate** | |
| transfer rate | 10 Mbit/s, 100 Mbit/s |
| **interfaces / for communication / maximum configuration for modular devices** | |
| number of electrical ports / maximum | 8 |
| **interfaces / for communication / integrated** | |
| number of electrical connections | |
| ● for network components or terminal equipment | 8; RJ45 |
| number of 10/100 Mbit/s RJ45 ports / integrated | |
| ● with securing collar | 8 |
| **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 | 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 |
| **type of voltage / 1 / of the supply voltage** | DC |
| ● supply voltage / 1 / rated value | 24 V |
| ● power loss [W] / 1 / rated value | 4.2 W |
| ● consumed current / 1 / at rated supply voltage / maximum | 0.175 A |
| ● supply voltage / 1 / rated value | 9.6 ... 31.2 V |
| ● consumed current / 1 / maximum | 0.35 A |
| ● type of electrical connection / 1 / for power supply | 4-pole terminal block |
| ● product component / 1 / fusing at power supply input | Yes |
| ● fuse protection type / 1 / at input for supply voltage | 2.5 A / 125 V |
| **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 | 60 mm |
| height | 147 mm |
| depth | 125 mm |
| net weight | 0.52 kg |
| 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 |
| PROFINET conformity class | B |
| product function / switch-managed | Yes |
| telegram length / for Ethernet / maximum | 1632 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 | |
| ● I&M0 - device-specific information | Yes |
| ● I&M1 - higher level designation/location designation | Yes |
| product function | |
| ● is supported / identification link | Yes |

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| 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) | 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 | |
| ● 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 |

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| | |
|---|---|
| ● 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** | |
|---|---|
| IT security for industrial automation systems / according to IEC 62443-4-2:2019 | Yes |
| MTBF | 48 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 50121-4 |
| ● 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 60079-0, EN 60079-15 |
| ● for ATEX / as marking | II 3 G Ex nA II T4 Gc |
| ● for ATEX / as certificate | KEMA 07ATEX0145 X |
| ● IECEx | Yes; IEC 60079-0, IEC 60079-15 |
| ● for IECEx / as marking | Ex nA II T4 Gc |
| ● for IECEx / as certificate | IECEx DEK 14.0025X |
| ● CCC / for hazardous zone according to GB standard | Yes |
| ● 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. | E240480 (NWHP, NWHP7) |
| ● FM registration | Yes; FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004 |
| ● 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 | FM16US0205X |

| **standards, specifications, approvals / other** | |
|---|---|
| certificate of suitability | |
| ● 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) |
| ● for UL 60950-1 / as File Nr. | E115352 (NWGQ, NWGQ7) |
| ● EAC approval | Yes |

| **standards, specifications, approvals / marine classification** | |
|---|---|
| Marine classification association | |
| ● American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| ● French marine classification society (BV) | Yes |
| ● DNV GL | Yes |
| ● Korean Register of Shipping (KRS) | Yes |
| ● Lloyds Register of Shipping (LRS) | Yes |
| ● Nippon Kaiji Kyokai (NK) | Yes |
| ● Polski Rejestr Statkow (PRS) | Yes |
| ● Royal Institution of Naval Architects (RINA) | Yes |

| **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: 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, 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. For more information, visit http://support.automation.siemens.com. (V3.4) |

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