

## Data sheet

## 6GK5208-0BA00-2FC2



SCALANCE XC208EEC 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; with painted printed-circuit boards; NAMUR NE21-compliant; 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;

| product type designation                                    |   |
|---|---|
| product brand name  | SCALANCE  |
| product type designation                                    | XC208EEC  |
| Technical Product Detail Page                               | <a href="https://i.siemens.com/1P6GK5208-0BA00-2FC2">https://i.siemens.com/1P6GK5208-0BA00-2FC2</a> |
| transfer rate   |   |
| transfer rate   | 10, 100 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                                      | 8   |
| interfaces / other  |   |
| number of electrical connections                            |   |
| • for operator console                                      | 1   |
| • for signaling contact                                     | 1   |
| • for power supply  | 1   |
| type of electrical connection                               |   |
| • 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                                       | 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                 |   |
| • 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 / voltage range                        | 9.6 ... 31.2  |
| • 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   |
| 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   |
| <b>design, dimensions and weights</b>  |  |
| design   | compact  |
| width  | 60 mm  |
| height   | 147 mm   |
| depth  | 125 mm   |
| net weight   | 0.52 kg  |
| product feature / conformal coating  | Yes  |
| material / of the enclosure  | Polycarbonate (PC-GF10) / pressure die cast aluminum |
| fastening method   |  |
| • 35 mm DIN-rail mounting  | Yes  |
| • wall mounting  | Yes  |
| • S7-300 rail mounting   | Yes  |
| • S7-1500 rail mounting  | Yes  |
| <b>product features, product functions, product components / general</b>       |  |
| 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  |
| <b>product functions / management, configuration, engineering</b>              |  |
| 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  |
| telegram length / for Ethernet / maximum                                       | 1632 byte  |
| protocol / is supported  |  |
| • Telnet   | Yes  |
| • HTTP   | Yes  |
| • HTTPS  | Yes  |
| • TFTP   | Yes  |
| • SFTP   | 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 |
| <b>product functions / diagnostics</b>                                  |     |
| product function  |     |
| ● port diagnostics  | Yes |
| ● statistics Packet Size  | Yes |
| ● statistics packet type  | Yes |
| ● error statistics  | Yes |
| ● SysLog  | Yes |
| <b>product functions / VLAN</b>   |     |
| 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 |
| <b>product functions / DHCP</b>   |     |
| product function  |     |
| ● DHCP server   | Yes |
| ● DHCP client   | Yes |
| ● DHCP Option 82  | Yes |
| ● DHCP Option 66  | Yes |
| ● DHCP Option 67  | Yes |
| <b>product functions / redundancy</b>                                   |     |
| 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 |
| ● 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 |
| <b>system modification during operation</b>                             |     |
| product function / configuration in RUN via CiR/H-CiR                   | Yes |
| <b>product functions / security</b>                                     |     |
| product function  |     |
| ● IEEE 802.1x (radius)  | Yes |
| ● RADIUS client   | Yes |
| ● broadcast/multicast/unicast limiter                                   | Yes |
| ● broadcast blocking  | Yes |
| protocol / is supported   |     |
| ● SSH   | Yes |

|   |   |
|---|---|
| • SSL   | Yes   |
| <b>product functions / time</b>   |   |
| product function  |   |
| • SICLOCK support   | Yes   |
| • NTP-client  | Yes   |
| • SNTP client   | Yes   |
| protocol / is supported   |   |
| • NTP   | Yes   |
| • SNTP  | Yes   |
| <b>standards, specifications, approvals</b>                                     |   |
| certificate of suitability  |   |
| • CE marking  | Yes   |
| • cULus approval  | 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                                |
| • for safety / from CSA and UL  | UL 60950-1 E115352, UL-61010-2 E85972                   |
| <b>standards, specifications, approvals / hazardous environments</b>            |   |
| certificate of suitability  |   |
| • ATEX  | Yes   |
| • UKEX  | Yes   |
| • IECEx   | Yes   |
| • ULhazloc approval   | Yes   |
| • CCC / for hazardous zone according to GB standard                             | Yes   |
| • FM registration   | Yes   |
| <b>standards, specifications, approvals / other</b>                             |   |
| 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   |
| <b>standards, specifications, approvals / marine classification</b>             |   |
| certificate of suitability / shipbuilding approval / note                       | Certifications marked 'No' are currently under renewal. |
| Marine classification association   |   |
| • American Bureau of Shipping Europe Ltd. (ABS)                                 | No  |
| • French marine classification society (BV)                                     | No  |
| • Chinese Classification Society (CCS)  | No  |
| • Det Norske Veritas (DNV)  | Yes   |
| • Korean Register of Shipping (KRS)   | No  |
| • Lloyds Register of Shipping (LRS)   | No  |
| • Nippon Kaiji Kyokai (NK)  | Yes   |
| • Polski Rejestr Statków (PRS)  | No  |
| • Royal Institution of Naval Architects (RINA)                                  | No  |
| <b>standards, specifications, approvals / Environmental Product Declaration</b> |   |
| Environmental Product Declaration   | Yes   |
| global warming potential [CO2 eq]   |   |
| • total   | 135.7 kg  |
| • during manufacturing  | 26.3 kg   |
| • during operation  | 109 kg  |
| • after end of life   | 0.4 kg  |
| <b>product functions / general</b>  |   |
| MTBF  | 48 a  |
| warranty period   | 5 a   |
| product function / is supported / identification link                           | Yes; acc. to IEC 61406-1:2022                           |
| <b>further information / internet links</b>                                     |   |
| internet link   |   |

- to website: Selection guide for cables and connectors
- to web page: selection aid TIA Selection Tool
- to website: Industrial communication
- to web page: SiePortal
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

<https://support.industry.siemens.com/cs/ww/en/view/109766358>  
<https://www.siemens.com/tstcloud>  
<https://www.siemens.com/simatic-net>  
<https://sieportal.siemens.com/>  
<https://www.automation.siemens.com/bilddb>  
<https://www.siemens.com/cax>  
<https://support.industry.siemens.com>

## security information

### security information

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## Approvals / Certificates

### General Product Approval



[Declaration of Conformity](#)



[China RoHS](#)



### General Product Approval

EMV

For use in hazardous locations

[Miscellaneous](#)

[Declaration of Conformity](#)



[TUEV](#)



### For use in hazardous locations

Environment



[FM](#)

[CCC-Ex](#)



[NK / Nippon Kaiji Kyokai](#)



### Industrial Communication

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