



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 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; Ethernet/IP-compliant; C-PLUG slot; IEEE 1588v2 PTP

|                                                                                   |                                                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>product type designation</b>                                                   | <b>SCALANCE XC208G PoE</b>                                                                    |
| <b>transfer rate</b>                                                              |                                                                                               |
| transfer rate                                                                     | 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s                                                            |
| <b>interfaces / for communication / maximum configuration for modular devices</b> |                                                                                               |
| number of electrical ports / maximum                                              | 8                                                                                             |
| number of electrical ports / with PoE / maximum                                   | 6                                                                                             |
| <b>interfaces / for communication / integrated</b>                                |                                                                                               |
| number of electrical connections                                                  |                                                                                               |
| • for network components or terminal equipment                                    | 8; RJ45                                                                                       |
| number of 10/100/1000 Mbit/s RJ45 ports / integrated                              |                                                                                               |
| • 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                                                                                             |
| <b>interfaces / other</b>                                                         |                                                                                               |
| 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                                                                                           |
| <b>signal inputs/outputs</b>                                                      |                                                                                               |
| operating voltage / of the signaling contacts                                     |                                                                                               |
| • at DC / rated value                                                             | 24 V                                                                                          |
| operational current / of the signaling contacts                                   |                                                                                               |
| • at DC / maximum                                                                 | 0.1 A                                                                                         |
| <b>supply voltage, current consumption, power loss</b>                            |                                                                                               |
| product component / connection for redundant voltage supply                       | Yes                                                                                           |
| supplied active power / of PSE / with PoE                                         |                                                                                               |
| • total / maximum                                                                 | 144 W                                                                                         |
| <b>type of voltage / 1 / of the supply voltage</b>                                | DC                                                                                            |
| • supply voltage / 1 / rated value                                                | 24 V                                                                                          |
| • consumed current / 1 / at rated supply voltage / maximum                        | 6 A                                                                                           |
| • supply voltage / 1 / rated value                                                | 19.2 ... 31.2 V                                                                               |
| • consumed current / 1 / maximum                                                  | 7.5 A                                                                                         |
| • fuse protection type / 1 / at input for supply voltage                          | 15 A / 125 V                                                                                  |
| <b>ambient conditions</b>                                                         |                                                                                               |
| ambient temperature                                                               |                                                                                               |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>note</li> </ul>                                                                                                                                                                                        | -40 ... +60 °C<br>-40 ... +85 °C<br>-40 ... +85 °C<br>installation position and SFPs used during the operation have to be considered (see manual) |
| relative humidity <ul style="list-style-type: none"> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>                                                                                                                                                                                          | 95 %                                                                                                                                              |
| protection class IP                                                                                                                                                                                                                                                                                                       | IP20                                                                                                                                              |
| <b>design, dimensions and weights</b>                                                                                                                                                                                                                                                                                     |                                                                                                                                                   |
| design                                                                                                                                                                                                                                                                                                                    | compact                                                                                                                                           |
| width                                                                                                                                                                                                                                                                                                                     | 100 mm                                                                                                                                            |
| height                                                                                                                                                                                                                                                                                                                    | 147 mm                                                                                                                                            |
| depth                                                                                                                                                                                                                                                                                                                     | 125 mm                                                                                                                                            |
| net weight                                                                                                                                                                                                                                                                                                                | 0.955 kg                                                                                                                                          |
| product feature / conformal coating                                                                                                                                                                                                                                                                                       | No                                                                                                                                                |
| material / of the enclosure                                                                                                                                                                                                                                                                                               | Polycarbonate (PC-GF10) / pressure die cast aluminum                                                                                              |
| fastening method <ul style="list-style-type: none"> <li>35 mm top hat DIN rail mounting</li> <li>wall mounting</li> <li>S7-300 rail mounting</li> <li>S7-1500 rail mounting</li> </ul>                                                                                                                                    | Yes<br>Yes<br>Yes<br>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 <ul style="list-style-type: none"> <li>Cut Through switching method</li> <li>Store &amp; Forward switching method</li> </ul>                                                                                                                                                                              | No<br>Yes                                                                                                                                         |
| <b>product functions / management, configuration, engineering</b>                                                                                                                                                                                                                                                         |                                                                                                                                                   |
| product function <ul style="list-style-type: none"> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> <li>TRAPs via email</li> <li>configuration with STEP 7</li> <li>RMON</li> <li>SMTP server</li> <li>port mirroring</li> <li>multiport mirroring</li> <li>CoS</li> <li>PROFINET IO diagnosis</li> </ul> | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>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 <ul style="list-style-type: none"> <li>Telnet</li> <li>HTTP</li> <li>HTTPS</li> <li>TFTP</li> <li>BOOTP</li> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>IGMP (snooping/querier)</li> </ul>                              | Yes<br>Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes                                                     |

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|-------------------------------------------------------------------------|-----|
| 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 |
| protocol / is supported / GVRP                                          | Yes |
| <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>                                   |     |
| 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 |
| <b>product functions / security</b>                                     |     |
| product function                                                        |     |
| • IEEE 802.1x (radius)                                                  | Yes |
| • broadcast/multicast/unicast limiter                                   | Yes |
| • broadcast blocking                                                    | Yes |
| protocol / is supported                                                 |     |
| • SSH                                                                   | Yes |
| • SSL                                                                   | Yes |

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|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>product functions / time</b>                                                 |                                                                                                            |
| product function                                                                |                                                                                                            |
| • SICLOCK support                                                               | Yes                                                                                                        |
| • NTP-client                                                                    | Yes                                                                                                        |
| • SNTP client                                                                   | Yes                                                                                                        |
| protocol / is supported                                                         |                                                                                                            |
| • NTP                                                                           | Yes                                                                                                        |
| • SNTP                                                                          | Yes                                                                                                        |
| • IEEE 1588 profile default                                                     | Yes                                                                                                        |
| <b>system modification during operation</b>                                     |                                                                                                            |
| product function / configuration in RUN via CiR/H-CiR                           | Yes                                                                                                        |
| <b>standards, specifications, approvals</b>                                     |                                                                                                            |
| 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                                                                            | 42 a                                                                                                       |
| reference code                                                                  |                                                                                                            |
| • according to IEC 81346-2                                                      | KF                                                                                                         |
| • according to IEC 81346-2:2019                                                 | KFE                                                                                                        |
| <b>standards, specifications, approvals / CE</b>                                |                                                                                                            |
| 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                                                                                            |
| <b>standards, specifications, approvals / hazardous environments</b>            |                                                                                                            |
| certificate of suitability                                                      |                                                                                                            |
| • ATEX                                                                          | Yes                                                                                                        |
| • for ATEX / as marking                                                         | II 3 G Ex ec IIC T4 Gc                                                                                     |
| • IECEx                                                                         | Yes                                                                                                        |
| • for IECEx / as marking                                                        | Ex ec IIC T4 Gc                                                                                            |
| • 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                                                    |
| • FM registration                                                               | Yes; FM Class 3600:2018, FM Class 3611:2021, FM Class 3810:2021, ANSI/UL 121201:2017, ANSI/UL 61010-1:2018 |
| • for FM / as marking                                                           | CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C                                  |
| <b>standards, specifications, approvals / other</b>                             |                                                                                                            |
| 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                                                                                                        |
| <b>accessories</b>                                                              |                                                                                                            |
| product extension / optional / C-PLUG                                           | Yes                                                                                                        |
| <b>further information / internet links</b>                                     |                                                                                                            |
| internet link                                                                   |                                                                                                            |
| • to web page: selection aid TIA Selection Tool                                 | <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>          |
| • to website: Industrial communication                                          | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                        |
| • to website: Industry Mall                                                     | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                          |
| • to website: Information and Download Center                                   | <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>        |
| • to website: Image database                                                    | <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>                    |
| • to website: CAx-Download-Manager                                              | <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                        |
| • to website: Industry Online Support                                           | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>                    |
| <b>security information</b>                                                     |                                                                                                            |
| security information                                                            | Siemens provides products and solutions with industrial security functions that                            |

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