

SCALANCE XC208G Manageable layer 2 IE switch; 8x 10/100/1000 Mbit/s; RJ45 ports; 1x console port; Diagnostics LED; Redundant power supply; Temp. range -40 °C to +70 °C Mounting: Standard mounting rail/S7 mounting rail/wall; Redundancy functions; Office features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-PLUG slot;



<b>Product type designation</b>	<b>SCALANCE XC208G</b>
<b>Transfer rate</b>	
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
<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	8
<b>Interfaces / other</b>	
Number of electrical connections	
• for operator console	1
• for signaling contact	1
• for power supply	1
• for redundant voltage supply	1
Type of electrical connection	
• for operator console	RJ11
• for signaling contact	2-pole terminal block

<ul style="list-style-type: none"> <li>• for power supply</li> </ul>	4-pole terminal block
design of the removable storage	
<ul style="list-style-type: none"> <li>• C-PLUG</li> </ul>	Yes

### Signal inputs/outputs

Operating voltage / of the signaling contacts	
<ul style="list-style-type: none"> <li>• at DC / Rated value</li> </ul>	24 V
Operating current / of the signaling contacts	
<ul style="list-style-type: none"> <li>• at DC / maximum</li> </ul>	0.1 A

### Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage	
<ul style="list-style-type: none"> <li>• external</li> </ul>	24 V
<ul style="list-style-type: none"> <li>• external / minimum</li> </ul>	9.6 V
<ul style="list-style-type: none"> <li>• external / maximum</li> </ul>	31.2 V
<b>Supply voltage / 4 / Rated value</b>	
<ul style="list-style-type: none"> <li>• Consumed current / 4 / at rated supply voltage / maximum</li> </ul>	0.26 A
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	2.5 A / 125 V
Consumed current / maximum	0.36 A
Power loss [W]	
<ul style="list-style-type: none"> <li>• at DC / at 24 V</li> </ul>	4.3 W

### Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +85 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-40 ... +85 °C
Relative humidity	
<ul style="list-style-type: none"> <li>• at 25 °C / without condensation / during operation / maximum</li> </ul>	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
Mounting type	
<ul style="list-style-type: none"> <li>• 35 mm DIN rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• wall mounting</li> </ul>	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 $<\sim 0.3\sim s$	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	2048 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 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 |
| 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 (S2) | 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 |

<ul style="list-style-type: none"> <li>• of the PROFINET IO device / is supported / H-Sync forwarding</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• redundancy procedure STP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• redundancy procedure RSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• redundancy procedure MSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Passive listening</li> </ul>	Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>• LACP</li> </ul>	Yes

### Product functions / Security

Product function	
<ul style="list-style-type: none"> <li>• IEEE 802.1x (radius)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Broadcast/Multicast/Unicast Limiter</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• broadcast blocking</li> </ul>	Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>• SSH</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SSL</li> </ul>	Yes

### Product functions / time

Product function	
<ul style="list-style-type: none"> <li>• SICLOCK support</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• NTP-client</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNTP client</li> </ul>	Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>• NTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNTP</li> </ul>	Yes

### System modification during operation

Product function / configuration in RUN via CiR/H-CiR	Yes
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### Standards, specifications, approvals

Security for industrial automation and control systems / acc. to IEC 62443-4-2:2019	Yes
MTBF	54 y

### Standards, specifications, approvals / CE

Certificate of suitability / CE marking	Yes
Product conformity / according to EMC-guideline	2014/30/EU
Standard	
<ul style="list-style-type: none"> <li>• for EMC interference emission</li> </ul>	EN 61000-6-4, EN 50121-9
<ul style="list-style-type: none"> <li>• for immunity to EMI</li> </ul>	EN 61000-6-2, EN 50121-9

Certificate of suitability / RoHS conformity	Yes; 2011/65/EU
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### Standards, specifications, approvals / hazardous environments

Certificate of suitability	
<ul style="list-style-type: none"> <li>• ATEX</li> <li>• for ATEX / as marking</li> <li>• for ATEX / as certificate</li> <li>• IECEx</li> <li>• for IECEx / as marking</li> <li>• for IECEx / as certificate</li> <li>• for cULus HazLoc / as marking</li> <li>• for cULus HazLoc / as File Nr.</li> <li>• FM registration</li> <li>• for FM / as marking</li> <li>• for FM / as certificate</li> </ul>	<p>Yes; EN 60079-0, EN 60079-15</p> <p>II 3 G Ex nA II T4 Gc</p> <p>KEMA 07ATEX0145 X</p> <p>Yes; IEC 60079-0, IEC 60079-15</p> <p>Ex nA II T4 Gc</p> <p>IECEx DEK 14.0025X</p> <p>CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4</p> <p>E240480 (NWHP, NWHP7)</p> <p>Yes; FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004</p> <p>CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C</p> <p>FM16US0205X</p>

### Standards, specifications, approvals / other

Certificate of suitability	
<ul style="list-style-type: none"> <li>• Railway application in accordance with EN 50121-4</li> <li>• Regulatory Compliance Mark (RCM)</li> <li>• for UL 61010-2-201 / as File Nr.</li> <li>• for UL 60950-1 / as File Nr.</li> <li>• EAC approval</li> </ul>	<p>Yes</p> <p>Yes</p> <p>E85972 (NRAQ, NRAQ7)</p> <p>E115352 (NWGQ, NWGQ7)</p> <p>Yes</p>

### Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET SELECTION TOOL</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAx Download Manager</li> <li>• to website: Industry Online Support</li> </ul>	<p><a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a></p> <p><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a></p> <p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></p> <p><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></p> <p><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>

### 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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