

SCALANCE XC208 manageable layer 2 IE Switch; 8x 10/100 Mbit/s RJ45 ports; 1x console port; Diagnostic LED; Redundant power supply; Temp. range -40°C to +70 °C Mounting: Standard Mounting Rail/S7 Profile Rail/Wall Office redundancy functions features (RSTP, VLAN, ...); PROFINET IO device Ethernet/IP-compliant C-PLUG shaft;



<b>Product type designation</b>	<b>SCALANCE XC208</b>
<b>Transmission rate</b>	
Transfer rate	10 Mbit/s, 100 Mbit/s
<b>Interfaces / for communication / integrated</b>	
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
<b>Interfaces / others</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
• for power supply	4-pole terminal block

design of the removable storage	
<ul style="list-style-type: none"> <li>• C-PLUG</li> </ul>	Yes
<b>Signal-Inputs/outputs</b>	
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
<b>Supply voltage, current consumption, power loss</b>	
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>	0.175 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	0.35 A
Power loss [W]	
<ul style="list-style-type: none"> <li>• at DC / at 24 V</li> </ul>	4.2 W
<b>Permitted ambient conditions</b>	
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
<b>Design, dimensions and weight</b>	
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
<ul style="list-style-type: none"> <li>• S7-300 rail mounting</li> </ul>	Yes

- S7-1500 rail mounting

Yes

### Product properties, functions, components / general

Cascading in the case of a redundant ring / at reconfiguration time of <math>\sim 0.3\text{s}</math>	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

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 functions / Diagnosis

#### Product function

- Port diagnostics
- Statistics Packet Size
- Statistics packet type
- Error statistics
- SysLog

Yes

Yes

Yes

Yes

Yes

### Product functions / VLAN

#### Product function

- VLAN - port based
- VLAN - protocol-based
- VLAN - IP-based

Yes

No

No

Number of VLANs / maximum

257

Number of VLANs - dynamic / maximum

257

Protocol / is supported / GVRP

Yes

### Product functions / DHCP

#### Product function

- DHCP server
- DHCP client
- DHCP Option 82
- DHCP Option 66
- DHCP Option 67

Yes

Yes

Yes

Yes

Yes

### Product functions / Redundancy

#### Product function

- of the PROFINET IO device / is supported / PROFINET system redundancy (S2)
- Ring redundancy
- High Speed Redundancy Protocol (HRP)
- high speed redundancy protocol (HRP) with redundancy manager
- high speed redundancy protocol (HRP) with standby redundancy

Yes

Yes

Yes

Yes

Yes

Protocol / is supported / Media Redundancy Protocol (MRP)

Yes

#### Product function

- media redundancy protocol (MRP) with redundancy manager
- redundancy procedure STP
- redundancy procedure RSTP

Yes

Yes

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

#### 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 50121-4
<ul style="list-style-type: none"> <li>• for immunity to EMI</li> </ul>	EN 61000-6-2, EN 50121-4
Certificate of suitability / RoHS conformity	Yes; 2011/65/EU

#### Standards, specifications, approvals / hazardous environments

Certificate of suitability	
<ul style="list-style-type: none"> <li>• ATEX</li> </ul>	Yes; EN 60079-0, EN 60079-15
<ul style="list-style-type: none"> <li>• for ATEX / as marking</li> </ul>	II 3 G Ex nA II T4 Gc
<ul style="list-style-type: none"> <li>• for ATEX / as certificate</li> </ul>	KEMA 07ATEX0145 X
<ul style="list-style-type: none"> <li>• IECEx</li> </ul>	Yes; IEC 60079-0, IEC 60079-15
<ul style="list-style-type: none"> <li>• for IECEx / as marking</li> </ul>	Ex nA II T4 Gc
<ul style="list-style-type: none"> <li>• for IECEx / as certificate</li> </ul>	IECEx DEK 14.0025X
<ul style="list-style-type: none"> <li>• for cULus HazLoc / as marking</li> </ul>	CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4

- for cULus HazLoc / as File Nr.
- FM registration
- for FM / as marking
- for FM / as certificate

E240480 (NWHP, NWHP7)

Yes; FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004

CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C

FM16US0205X

#### Standards, specifications, approvals / miscellaneous

##### 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 / ship classification

##### Marine classification association

- |   |     |
|---|-----|
| • American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| • Bureau Veritas (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 |

#### Standards, specifications, approvals / product conformity

MTBF	48 y
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#### Accessories

Product extension / optional / C-PLUG	Yes
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#### Further Information / Internet Links

##### Internet-Link

- |   |   |
|---|---|
| • to website: Selector SIMATIC NET SELECTION TOOL | <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</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>             |

#### 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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