



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;

Product type designation	SCALANCE XC208G
Transfer rate	
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 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 / Integrated	
• with securing collar	8
Interfaces / other	
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	
• C-PLUG	Yes

Signal inputs/outputs

Operating voltage / of the signaling contacts	
• at DC / Rated value	24 V
Operating current / of the signaling contacts	
• at DC / maximum	0.1 A

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage	
• external	24 V
• external / minimum	9.6 V
• external / maximum	31.2 V
Supply voltage / 4 / Rated value	
• Consumed current / 4 / at rated supply voltage / maximum	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]	
• at DC / at 24 V	4.3 W

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 weight

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	
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes

- S7-300 rail mounting
- S7-1500 rail mounting

Yes
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
- I&M1 – higher-level designation/location designation

Yes

Yes

Product functions / Diagnostics

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

Yes

• of the PROFINET IO device / is supported / H-Sync forwarding	Yes
• redundancy procedure STP	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
• 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
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Standards, specifications, approvals

MTBF	54 y
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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 50121-9
• for immunity to EMI	EN 61000-6-2, EN 50121-9
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 |
| • 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 |

Further information / Internet-Links

Internet-Link

- | | |
|---|---|
| • to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| • 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

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