



SCALANCE XC208G manageable Layer 2 IE switch; IEC 62443-4-2 certified; 8x 10/100/1000 Mbps; RJ45 ports; 1x console port; diagnostics LED; redundant power supply; 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; IEEE 1588v2 PTP

product type designation	SCALANCE XC208G
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
interfaces / for communication / maximum configuration for modular devices	
number of electrical ports / maximum	8
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
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
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	DC
• supply voltage / 1 / rated value	24 V
• power loss [W] / 1 / rated value	4.3 W
• consumed current / 1 / at rated supply voltage / maximum	0.26 A
• supply voltage / 1 / rated value	9.6 ... 31.2 V
• consumed current / 1 / maximum	0.36 A
• type of electrical connection / 1 / for power supply	4-pole terminal block
• product component / 1 / fusing at power supply input	Yes
• fuse protection type / 1 / at input for supply voltage	2.5 A / 125 V
ambient conditions	
ambient temperature	
• during operation	-40 ... +70 °C

<ul style="list-style-type: none"> during storage during transport 	-40 ... +85 °C
relative humidity	
<ul style="list-style-type: none"> at 25 °C / without condensation / during operation / maximum 	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
fastening method	
<ul style="list-style-type: none"> 35 mm top hat DIN rail mounting wall mounting S7-300 rail mounting S7-1500 rail mounting 	Yes Yes Yes Yes
product features, product functions, product components / general	
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"> Cut Through switching method Store & Forward switching method 	No Yes
product functions / management, configuration, engineering	
product function	
<ul style="list-style-type: none"> CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON SMTP server port mirroring multiport mirroring CoS PROFINET IO diagnosis 	Yes Yes Yes Yes Yes Yes No Yes Yes Yes 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"> Telnet HTTP HTTPS TFTP BOOTP GMRP DCP LLDP EtherNet/IP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) 	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes
identification & maintenance function	
<ul style="list-style-type: none"> I&M0 - device-specific information I&M1 - higher level designation/location designation 	Yes Yes
product function	

• is supported / identification link	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
number of VLANs / at ring redundancy (HRP; MRP; standby link)	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	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
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	

<ul style="list-style-type: none"> • SICLOCK support • NTP-client • SNTP client 	<p>Yes</p> <p>Yes</p> <p>Yes</p>
protocol / is supported	
<ul style="list-style-type: none"> • NTP • SNTP • IEEE 1588 profile default 	<p>Yes</p> <p>Yes</p> <p>Yes</p>
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	Yes
standards, specifications, approvals	
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
MTBF	54 a
reference code	
<ul style="list-style-type: none"> • according to IEC 81346-2 • according to IEC 81346-2:2019 	<p>KF</p> <p>KFE</p>
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"> • for EMC interference emission • for immunity to EMC 	<p>EN 61000-6-4, EN 50121-4</p> <p>EN 61000-6-2, EN 50121-4</p>
certificate of suitability / RoHS conformity	Yes; 2011/65/EU
standards, specifications, approvals / hazardous environments	
certificate of suitability	
<ul style="list-style-type: none"> • ATEX • for ATEX / as marking • for ATEX / as certificate • IECEx • for IECEx / as marking • for IECEx / as certificate • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking • for cULus HazLoc / as marking • for cULus HazLoc / as File Nr. • FM registration • for FM / as marking • for FM / as certificate 	<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>Yes</p> <p>Ex nA IIC T4 Gc</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"> • railway application in accordance with EN 50121-4 • Regulatory Compliance Mark (RCM) • for UL 61010-2-201 / as File Nr. • for UL 60950-1 / as File Nr. • EAC approval 	<p>Yes</p> <p>Yes</p> <p>E85972 (NRAQ, NRAQ7)</p> <p>E115352 (NWGQ, NWGQ7)</p> <p>Yes</p>
standards, specifications, approvals / marine classification	
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • Chinese Classification Society (CCS) • DNV GL • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (LRS) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA) 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
<ul style="list-style-type: none"> • Global Warming Potential [CO2 eq] / total • Global Warming Potential [CO2 eq] / during 	<p>153.7 kg</p> <p>28.4 kg</p>

manufacturing

- Global Warming Potential [CO2 eq] / during operation
- global warming potential [CO2 eq] / after end of life

125.2 kg
0.02 kg

accessories

product extension / optional / C-PLUG Yes

further information / internet links

internet link

- to web page: selection aid TIA Selection Tool
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

- <http://www.siemens.com/tia-selection-tool>
- <http://www.siemens.com/simatic-net>
- <https://mall.industry.siemens.com>
- <http://www.siemens.com/industry/infocenter>
- <http://automation.siemens.com/bilddb>
- <http://www.siemens.com/cax>
- <https://support.industry.siemens.com>

security information

security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial security measures that may be implemented, please visit <https://www.siemens.com/industrialsecurity>. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under <https://www.siemens.com/cert>. (V4.6)

Approvals / Certificates

General Product Approval	EMC	For use in hazardous locations
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[Miscellaneous](#)



[ATEX-Zone 2-Declaration](#)



[FM](#)

For use in hazardous locations	Declaration of Conformity	Marine / Shipping
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[CCC-Ex](#)



EG-Konf.



[Miscellaneous](#)



ABS



Marine / Shipping	other	Environment
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PRS



RINA



DNV-GL



KR

[PROFINET-Certification](#)



ISO 9001

Environment

[Environmental Certifications](#)

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