



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;

Product type designation	SCALANCE XC208
Transfer rate	
Transfer rate	10 Mbit/s, 100 Mbit/s
Interfaces / for communication / Integrated	
Number of electrical connections <ul style="list-style-type: none"><li>• for network components or terminal equipment</li></ul>	8; RJ45
Number of 10/100 Mbit/s RJ45 ports / Integrated <ul style="list-style-type: none"><li>• with securing collar</li></ul>	8
Interfaces / other	
Number of electrical connections <ul style="list-style-type: none"><li>• for operator console</li><li>• for signaling contact</li><li>• for power supply</li><li>• for redundant voltage supply</li></ul>	1 1 1 1
Type of electrical connection <ul style="list-style-type: none"><li>• for operator console</li><li>• for signaling contact</li><li>• for power supply</li></ul>	RJ11 2-pole terminal block 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
Operating current / of the signaling contacts	
• at DC / maximum	0.1 A
<b>Supply voltage, current consumption, power loss</b>	
Type of voltage / of the supply voltage	DC
Supply voltage	
• external	24 V
• external / minimum	9.6 V
• external / maximum	31.2 V
<b>Supply voltage / 4 / Rated value</b>	
• Consumed current / 4 / at rated supply voltage / maximum	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]	
• at DC / at 24 V	4.2 W
<b>Ambient conditions</b>	
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
<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	
• 35 mm DIN rail mounting	Yes
• wall mounting	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 <~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	
• 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	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 / 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
- of the PROFINET IO device / is supported / H-Sync forwarding

Yes

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

#### 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 50121-4
• for immunity to EMI	EN 61000-6-2, EN 50121-4
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
- for cULus HazLoc / as marking
- for cULus HazLoc / as File Nr.
- FM registration
- for FM / as marking
- for FM / as certificate

IECEX DEK 14.0025X  
 CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4  
 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 / 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

#### Standards, specifications, approvals / marine 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

#### accessories

Product extension / optional / C-PLUG 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

### Security information

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