



SIPLUS NET SCALANCE XC208 -40...+70°C with conformal coating based on 6GK5208-0BA00-2AC2 . manageable layer 2 IE Switch; 8x 10/100 Mbps RJ45 ports; 1x console port; Diagnostics 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	SIPLUS NET 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> </ul>	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

### 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

<b>type of voltage / 1 / of the supply voltage</b>	DC
<ul style="list-style-type: none"> <li>• supply voltage / 1 / rated value</li> </ul>	24 V
<ul style="list-style-type: none"> <li>• power loss [W] / 1 / rated value</li> </ul>	4.2 W
<ul style="list-style-type: none"> <li>• supply voltage / 1 / rated value</li> </ul>	9.6 ... 31.2 V
<b>type of voltage / 4 / of the supply voltage</b>	
<ul style="list-style-type: none"> <li>• consumed current / 4 / at rated supply voltage / maximum</li> </ul>	0.175 A

### ambient conditions

ambient temperature / in horizontal mounting position / during operation	70 ... -40 °C
ambient temperature / during storage and transport	70 ... -40 °C
installation altitude / at height above sea level / maximum	5000 m
relative humidity	
<ul style="list-style-type: none"> <li>• with condensation / acc. to IEC 60068-2-38 / maximum</li> </ul>	100 %
chemical resistance / to commercially available cooling lubricants	Yes
resistance to biologically active substances	
<ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-3</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-6</li> </ul>	Yes
resistance to chemically active substances	
<ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-3</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-6</li> </ul>	Yes
resistance to mechanically active substances	
<ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-3</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-6</li> </ul>	Yes
coating / for equipped printed circuit board / acc. to EN 61086	Yes
type of coating	
<ul style="list-style-type: none"> <li>• protection against pollution according to EN 60664-3</li> </ul>	Yes
type of test / of the coating / acc. to MIL-I-46058C	Yes
product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A	Yes

protection class IP	IP20
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### 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
<ul style="list-style-type: none"> <li>• S7-300 rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• S7-1500 rail mounting</li> </ul>	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	
<ul style="list-style-type: none"> <li>• Cut Through switching method</li> </ul>	No
<ul style="list-style-type: none"> <li>• Store &amp; Forward switching method</li> </ul>	Yes

### product functions / management, configuration, engineering

product function	
<ul style="list-style-type: none"> <li>• CLI</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• web-based management</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• MIB support</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• TRAPs via email</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• configuration with STEP 7</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• RMON</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SMTP server</li> </ul>	No
<ul style="list-style-type: none"> <li>• port mirroring</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• multiport mirroring</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• CoS</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• PROFINET IO diagnosis</li> </ul>	Yes
PROFINET conformity class	B
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	1632 byte
protocol / is supported	
<ul style="list-style-type: none"> <li>• Telnet</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• HTTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• HTTPS</li> </ul>	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	Yes

<ul style="list-style-type: none"> <li>• ring redundancy</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul style="list-style-type: none"> <li>• media redundancy protocol (MRP) with redundancy manager</li> </ul>	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	
MTBF	48 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> <li>• for immunity to EMI</li> </ul>	<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 / other	
certificate of suitability	
<ul style="list-style-type: none"> <li>• railway application in accordance with EN 50121-4</li> </ul>	Yes
accessories	
product extension / optional / C-PLUG	Yes
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	
security information	<p>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 <a href="http://www.siemens.com/industrialsecurity">http://www.siemens.com/industrialsecurity</a>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>. (V3.4)</p>

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