



SCALANCE XC206-2SFP G manageable Layer 2 IE switch; IEC 62443-4-2 certified; 6x 10/100/1000 Mbps RJ45 ports; 2x 1000 Mbps SFP; 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

<b>product type designation</b>	<b>SCALANCE XC206-2SFP G</b>
<b>transfer rate</b>	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
<b>interfaces / for communication / maximum configuration for modular devices</b>	
number of electrical ports / maximum	6
number of optical ports / maximum	2
<b>interfaces / for communication / integrated</b>	
number of electrical connections	6; RJ45
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>	
number of 10/100/1000 Mbit/s RJ45 ports / integrated	6
<ul style="list-style-type: none"> <li>with securing collar</li> </ul>	
<b>interfaces / for communication / plug-in</b>	
number of electrical connections	2; 1000 Mbit/s SFP plug-in transceiver or 100 Mbit/s via SCALANCE SFP991-1(LD) A
<ul style="list-style-type: none"> <li>for SFP</li> </ul>	
<b>interfaces / other</b>	
number of electrical connections	1
<ul style="list-style-type: none"> <li>for operator console</li> </ul>	
<ul style="list-style-type: none"> <li>for signaling contact</li> </ul>	
number of electrical connections	1
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	1
type of electrical connection	RJ11
<ul style="list-style-type: none"> <li>for operator console</li> </ul>	
<ul style="list-style-type: none"> <li>for signaling contact</li> </ul>	
type of electrical connection	2-pole terminal block
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	4-pole terminal block
design of the removable storage	Yes
<ul style="list-style-type: none"> <li>C-PLUG</li> </ul>	
<b>signal inputs/outputs</b>	
operating voltage / of the signaling contacts	24 V
<ul style="list-style-type: none"> <li>at DC / rated value</li> </ul>	
operational current / of the signaling contacts	0.1 A
<ul style="list-style-type: none"> <li>at DC / maximum</li> </ul>	
<b>supply voltage, current consumption, power loss</b>	
product component / connection for redundant voltage supply	Yes
<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>	6 W
<ul style="list-style-type: none"> <li>consumed current / 1 / at rated supply voltage / maximum</li> </ul>	0.25 A
<ul style="list-style-type: none"> <li>supply voltage / 1 / rated value</li> </ul>	9.6 ... 31.2 V
<ul style="list-style-type: none"> <li>consumed current / 1 / maximum</li> </ul>	0.5 A
<ul style="list-style-type: none"> <li>type of electrical connection / 1 / for power supply</li> </ul>	4-pole terminal block

<ul style="list-style-type: none"> <li>product component / 1 / fusing at power supply input</li> <li>fuse protection type / 1 / at input for supply voltage</li> </ul>	<p>Yes</p> <p>2.5 A / 125 V</p>
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul>	<p>-40 ... +70 °C</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>
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 weights</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
fastening method	
<ul style="list-style-type: none"> <li>35 mm top hat DIN rail mounting</li> <li>wall mounting</li> <li>S7-300 rail mounting</li> <li>S7-1500 rail mounting</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<b>product features, product functions, product components / general</b>	
cascading in the case of a redundant ring / at reconfiguration time of <math>\leq 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	
<ul style="list-style-type: none"> <li>Cut Through switching method</li> <li>Store &amp; Forward switching method</li> </ul>	<p>No</p> <p>Yes</p>
<b>product functions / management, configuration, engineering</b>	
product function	
<ul style="list-style-type: none"> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> <li>TRAPs via email</li> <li>configuration with STEP 7</li> <li>RMON</li> <li>SMTP server</li> <li>port mirroring</li> <li>multiport mirroring</li> <li>CoS</li> <li>PROFINET IO diagnosis</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
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"> <li>Telnet</li> <li>HTTP</li> <li>HTTPS</li> <li>TFTP</li> <li>BOOTP</li> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>

<ul style="list-style-type: none"> <li>IGMP (snooping/querier)</li> </ul>	Yes
identification & maintenance function	
<ul style="list-style-type: none"> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
<ul style="list-style-type: none"> <li>I&amp;M1 - higher level designation/location designation</li> </ul>	Yes
product function	
<ul style="list-style-type: none"> <li>is supported / identification link</li> </ul>	Yes
<b>product functions / diagnostics</b>	
product function	
<ul style="list-style-type: none"> <li>port diagnostics</li> </ul>	Yes
<ul style="list-style-type: none"> <li>statistics Packet Size</li> </ul>	Yes
<ul style="list-style-type: none"> <li>statistics packet type</li> </ul>	Yes
<ul style="list-style-type: none"> <li>error statistics</li> </ul>	Yes
<ul style="list-style-type: none"> <li>SysLog</li> </ul>	Yes
<b>product functions / VLAN</b>	
product function	
<ul style="list-style-type: none"> <li>VLAN - port based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>VLAN - protocol-based</li> </ul>	No
<ul style="list-style-type: none"> <li>VLAN - IP-based</li> </ul>	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
<b>product functions / DHCP</b>	
product function	
<ul style="list-style-type: none"> <li>DHCP server</li> </ul>	Yes
<ul style="list-style-type: none"> <li>DHCP client</li> </ul>	Yes
<ul style="list-style-type: none"> <li>DHCP Option 82</li> </ul>	Yes
<ul style="list-style-type: none"> <li>DHCP Option 66</li> </ul>	Yes
<ul style="list-style-type: none"> <li>DHCP Option 67</li> </ul>	Yes
<b>product functions / redundancy</b>	
product function	
<ul style="list-style-type: none"> <li>of the PROFINET IO device / is supported / PROFINET system redundancy</li> </ul>	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>Media Redundancy Protocol Interconnection (MRP-I)</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 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
<b>product functions / security</b>	
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> <li>• SSL</li> </ul>	<p>Yes</p> <p>Yes</p>
<b>product functions / time</b>	
product function	
<ul style="list-style-type: none"> <li>• SICLOCK support</li> <li>• NTP-client</li> <li>• SNTP client</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p>
protocol / is supported	
<ul style="list-style-type: none"> <li>• NTP</li> <li>• SNTP</li> <li>• IEEE 1588 profile default</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p>
<b>system modification during operation</b>	
product function / configuration in RUN via CiR/H-CiR	Yes
<b>standards, specifications, approvals</b>	
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
MTBF	55 a
reference code	
<ul style="list-style-type: none"> <li>• according to IEC 81346-2</li> <li>• according to IEC 81346-2:2019</li> </ul>	<p>KF</p> <p>KFE</p>
<b>standards, specifications, approvals / CE</b>	
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 EMC</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
<b>standards, specifications, approvals / hazardous environments</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• ATEX</li> <li>• for ATEX / as marking</li> <li>• for ATEX / as certificate</li> <li>• IECEx</li> <li>• for IECEx / as marking</li> <li>• for IECEx / as certificate</li> <li>• CCC / for hazardous zone according to GB standard</li> <li>• CCC / for hazardous zone according to GB standard / as marking</li> <li>• for cULus HazLoc / as marking</li> <li>• for cULus HazLoc / as File Nr.</li> <li>• FM registration</li> <li>• for FM / as marking</li> <li>• for FM / as certificate</li> </ul>	<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 (NWHF, NWHF7)</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>
<b>standards, specifications, approvals / other</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• railway application in accordance with EN 50121-4</li> <li>• Regulatory Compliance Mark (RCM)</li> <li>• for UL 61010-2-201 / as File Nr.</li> <li>• for UL 60950-1 / as File Nr.</li> <li>• EAC approval</li> </ul>	<p>Yes</p> <p>Yes</p> <p>E85972 (NRAQ, NRAQ7)</p> <p>E115352 (NWGQ, NWGQ7)</p> <p>Yes</p>
<b>standards, specifications, approvals / marine classification</b>	
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> <li>• Chinese Classification Society (CCS)</li> <li>• DNV GL</li> <li>• Korean Register of Shipping (KRS)</li> <li>• Lloyds Register of Shipping (LRS)</li> <li>• Polski Rejestr Statkow (PRS)</li> <li>• Royal Institution of Naval Architects (RINA)</li> </ul>	<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"> <li>• Global Warming Potential [CO2 eq] / total</li> <li>• Global Warming Potential [CO2 eq] / during manufacturing</li> <li>• Global Warming Potential [CO2 eq] / during operation</li> <li>• global warming potential [CO2 eq] / after end of life</li> </ul>	<p>153.7 kg</p> <p>28.4 kg</p> <p>125.2 kg</p> <p>0.02 kg</p>

**accessories**

product extension / optional / C-PLUG	Yes
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**further information / internet links**

internet link	
<ul style="list-style-type: none"> <li>• to web page: selection aid TIA 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/tia-selection-tool">http://www.siemens.com/tia-selection-tool</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, 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 <a href="https://www.siemens.com/industrialsecurity">https://www.siemens.com/industrialsecurity</a>. 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 <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.6)</p>
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**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](#)



Marine / Shipping	other
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[PROFINET-Certification](#)

**Environment**



[Environmental Con-  
firmations](#)

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