



**THE DATASHEET OF  
6GK52062RS002AC2**





SCALANCE XC206-2G PoE Manageable Layer 2 IE PoE Switch; IEC 62443-4-2 certified 6x 10/100/1000 Mbps RJ45 PoE ports acc. to IEEE802.3at ; 2 ports of which according to IEEE802.3bt; 2x 1,000, 10,000 Mbps SFP+; PoE support for 24 V DC Infeed; 120 W PoE power can be distributed among all PoE ports; 1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +60 °C; mounting on DIN rail/S7 mounting rail /wall; redundancy functions; Office features (RSTP, VLAN,... ); PROFINET device; Ethernet/IP-compliant; C-PLUG slot; IEEE 1588v2PTP

product type designation	
product brand name	SCALANCE
product type designation	XC206-2G PoE
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10 Gbit/s
interfaces / for communication / integrated	
number of electrical connections • for network components or terminal equipment	6; RJ45
number of 10/100/1000 Mbit/s RJ45 ports • with securing collar	4 PoE ports according to IEEE 802.3at (30 W), 2 PoE ports according to IEEE 802.3bt (60 W)
• with securing collar / with PoE	6
number of electrical connections • for SFP	2
interfaces / for communication / plug-in	
number of electrical connections • for SFP+	2; SFPs with 1000 Mbps or 10,000 Mbps possible; 100 Mbps with SFP991-1(LD) A possible
interfaces / other	
number of electrical connections • for operator console	1
• for signaling contact	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
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
supplied active power / of PSE / with PoE • total / maximum	144 W
<b>type of voltage / 1 / of the supply voltage</b> • supply voltage / 1 / rated value	DC 24 V
• power loss [W] / 1 / rated value	18 W
• supply voltage / 1 / rated value	19.2 ... 31.2 V

<ul style="list-style-type: none"> <li>consumed current / 1 / maximum</li> </ul>	6 A
<ul style="list-style-type: none"> <li>product component / 1 / fusing at power supply input</li> </ul>	Yes
<ul style="list-style-type: none"> <li>fuse protection type / 1 / at input for supply voltage</li> </ul>	15 A / 125 V
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-40 ... +60 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +85 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40 ... +85 °C
<ul style="list-style-type: none"> <li>note</li> </ul>	installation position and SFPs used during the operation have to be considered (see manual)
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	100 mm
height	147 mm
depth	125 mm
net weight	0.955 kg
product feature / conformal coating	No
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> </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
<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</math>-s	50
cascading in cases of star topology	any (depending only on signal propagation time)
product function	
<ul style="list-style-type: none"> <li>QoS according to DSCP</li> </ul>	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
<b>product functions / management, configuration, engineering</b>	
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
<ul style="list-style-type: none"> <li>switch-managed</li> </ul>	Yes
PROFINET conformity class	B
network load class / according to PROFINET	3
telegram length / for Ethernet / maximum	10240 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
<ul style="list-style-type: none"> <li>TFTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>BOOTP</li> </ul>	No
<ul style="list-style-type: none"> <li>GMRP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>DCP</li> </ul>	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
number of VLANs / at ring redundancy (HRP; MRP; standby link)	257

#### 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

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
• of the PROFINET IO device / is supported / PROFINET system redundancy	Yes
• ring redundancy	Yes
• high speed redundancy protocol (HRP) with redundancy manager	Yes
• high speed redundancy protocol (HRP) with standby redundancy	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

#### system modification during operation

product function / configuration in RUN via CiR/H-CiR	Yes
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#### product functions / security

product function	
• IEEE 802.1x (radius)	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
<b>product functions / time</b>	
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
<ul style="list-style-type: none"> <li>• IEEE 1588 profile default</li> </ul>	Yes
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• CE marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• KC approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Regulatory Compliance Mark (RCM)</li> </ul>	Yes
product conformity / according to EMC-guideline	2014/30/EU
standard	
<ul style="list-style-type: none"> <li>• for EMC interference emission</li> </ul>	EN 61000-6-4, EN 50121-4
<ul style="list-style-type: none"> <li>• for immunity to EMC</li> </ul>	EN 61000-6-2, EN 50121-4
<b>standards, specifications, approvals / hazardous environments</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• ATEX</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• UKEX</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IECEx</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• CCC / for hazardous zone according to GB standard</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• FM registration</li> </ul>	Yes
<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> </ul>	Yes
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
<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> </ul>	Yes
<ul style="list-style-type: none"> <li>• French marine classification society (BV)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Chinese Classification Society (CCS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DNV GL</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Korean Register of Shipping (KRS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Royal Institution of Naval Architects (RINA)</li> </ul>	Yes
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
<ul style="list-style-type: none"> <li>• total</li> </ul>	942.3 kg
<ul style="list-style-type: none"> <li>• during manufacturing</li> </ul>	63.42 kg
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	878.11 kg
<ul style="list-style-type: none"> <li>• after end of life</li> </ul>	0.76 kg
<b>product functions / general</b>	
MTBF	42 a
reference code	
<ul style="list-style-type: none"> <li>• according to IEC 81346-2</li> </ul>	KF
<ul style="list-style-type: none"> <li>• according to IEC 81346-2:2019</li> </ul>	KFE
Warranty period	5 a
product function / is supported / identification link	Yes; according to IEC 61406-1:2022
<b>further information / internet links</b>	

<p>internet link</p> <ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to web page: SiePortal</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="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a></p> <p><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a></p> <p><a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a></p> <p><a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a></p> <p><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a></p> <p><a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>
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**security information**

<p>security information</p>	<p>Siemens provides products and solutions with industrial cybersecurity 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 cybersecurity 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 cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</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 Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p>
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**Approvals / Certificates**



<p>General Product Approval</p>	<p>For use in hazardous locations</p>
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 EG-Konf.	<p><a href="#">Miscellaneous</a></p>	 TUV	 IECEX	 ATEX	<p><a href="#">FM</a></p>
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<p>For use in hazardous locations</p>	<p>Marine / Shipping</p>
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 UL	 ABS	 BUREAU VERITAS	 DNV	 PRS	 RINA
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<p>Marine / Shipping</p>	<p>Environment</p>	<p>Industrial Communication</p>
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<p><a href="#">CCS (China Classification Society)</a></p>	 KR KOREAN REGISTER OF SHIPPING	<p><a href="#">Confirmation</a></p>	 EPD	<p><a href="#">PROFINET</a></p>
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