## 6GK5212-2BC00-2AA3

**Data sheet** 



\*\*\*\*\*\*\*\*\*\*\*\* spare part \*\*\*\*\*\*\*\*\* SCALANCE X212-2LD, managed IE switch, 12x 10/100 Mbit/s RJ45 ports, 2x 100 Mbit/s single-mode BFOC, LED diagnostics, error-signaling contact with set pushbutton, redundant power supply, PROFINET IO device, network management, Redundancy Manager integrated, incl. electron. manual on CD-ROM, C-PLUG optional.

product type designation		
product brand name	SCALANCE	
product type designation	X212-2LD	
transfer rate		
transfer rate	10 Mbit/s, 100 Mbit/s	
interfaces / for communication / integrated		
number of electrical connections		
<ul> <li>for network components or terminal equipment</li> </ul>	12	
number of 10/100 Mbit/s RJ45 ports		
with securing collar	12	
number of 100 Mbit/s ST(BFOC) ports		
• for single mode (LD)	2	
interfaces / other		
number of electrical connections		
for signaling contact	1	
for power supply	1	
type of electrical connection		
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	
type of voltage / 1 / of the supply voltage	DC	
<ul><li>supply voltage / 1 / rated value</li></ul>	24 V	
<ul><li>power loss [W] / 1 / rated value</li></ul>	7.92 W	
<ul><li>supply voltage / 1 / rated value</li></ul>	18 32 V	
<ul><li>consumed current / 1 / maximum</li></ul>	0.33 A	
<ul> <li>type of electrical connection / 1 / for power supply</li> </ul>	4-pole terminal block	
<ul> <li>product component / 1 / fusing at power supply input</li> </ul>	Yes	
fuse protection type / 1 / at input for supply voltage	1.1 A / 33 V	
ambient conditions		
ambient temperature		
<ul> <li>during operation</li> </ul>	-40 +60 °C	
<ul><li>during storage</li></ul>	-40 +70 °C	
during transport	-40 +70 °C	

relative humidity	
• at 25 °C / without condensation / during operation /	95 %
maximum	
protection class IP	IP30
design, dimensions and weights	
design	compact
width	120 mm
height	125 mm
depth	124 mm
net weight	1.2 kg
fastening method	
<ul> <li>35 mm top hat DIN rail mounting</li> </ul>	Yes
wall mounting	Yes
<ul> <li>S7-300 rail mounting</li> </ul>	Yes
S7-1500 rail mounting	No
product features, product functions, product components / gen	eral
cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	100
cascading in cases of star topology	any (depending only on signal propagation time)
product functions / management, configuration, engineering	
product function	
• CLI	Yes
<ul> <li>web-based management</li> </ul>	Yes
MIB support	Yes
TRAPs via email	Yes
<ul><li>configuration with STEP 7</li></ul>	Yes
<ul> <li>port mirroring</li> </ul>	Yes
<ul> <li>multiport mirroring</li> </ul>	No
<ul> <li>with IRT / PROFINET IO switch</li> </ul>	No
<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes
switch-managed	Yes
PROFINET conformity class	В
protocol / is supported	
Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	No
• DCP	Yes
• LLDP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
identification & maintenance function	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	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
product functions / DHCP	
product function	
DHCP client	Yes
product functions / redundancy	
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul> <li>media redundancy protocol (MRP) with redundancy</li> </ul>	Yes
manager	

<ul> <li>ring redundancy</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with redundancy</li> </ul>	Yes
manager	
<ul> <li>high speed redundancy protocol (HRP) with standby</li> </ul>	No
redundancy	
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the</li> </ul>	Yes
PRP-network	
<ul> <li>Parallel Redundancy Protocol (PRP)/Redundant Network</li> </ul>	No
Access (RNA)	
<ul> <li>passive listening</li> </ul>	Yes
product functions / security	
protocol / is supported	
• SSH	Yes
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product functions / time	
product function	
SICLOCK support	Yes
protocol / is supported	
• NTP	No
• SNTP	Yes
standards, specifications, approvals	
certificate of suitability	
<ul> <li>CE marking</li> </ul>	Yes
KC approval	Yes
standard	
<ul> <li>for safety / from CSA and UL</li> </ul>	UL 60950-1 E115352, CSA C22.2 No. 60950-1
standards, specifications, approvals / hazardous environments	
certificate of suitability	
•	Voc
CCC / for hazardous zone according to GB standard	Yes
standards, specifications, approvals / other	
certificate of suitability	
<ul> <li>railway application in accordance with EN 50155</li> </ul>	No
<ul> <li>railway application in accordance with EN 50124-1</li> </ul>	No
standards, specifications, approvals / marine classification	
Marine classification association	
	Voc
American Bureau of Shipping Europe Ltd. (ABS)	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	Yes
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	No
• DNV GL	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	Yes
Polski Rejestr Statkow (PRS)	Yes
Royal Institution of Naval Architects (RINA)	Yes
product functions / general	
	54.40
MTBF	51.18 a
reference code	
<ul><li>according to IEC 81346-2</li></ul>	KF
<ul> <li>according to IEC 81346-2:2019</li> </ul>	KFE
further information / internet links	
internet link	
	https://sie.ag/2QdlxcP
to website: Selection guide for cables and connectors	
to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
<ul> <li>to website: Industrial communication</li> </ul>	http://www.siemens.com/simatic-net
to website: Image database	http://automation.siemens.com/bilddb
<ul> <li>to website: CAx-Download-Manager</li> </ul>	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
	Signate provides products and solutions with industrial subgrecourity functions
security information	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

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## Approvals / Certificates

**General Product Approval** 

EMV

Manufacturer Declaration Declaration of Conformity







<u>KC</u>

For use in hazardous locations

**Test Certificates** 

Marine / Shipping

<u>FM</u>

CCC-Ex

Type Test Certificates/Test Report







Marine / Shipping

Environment

**Industrial Communication** 



NK / Nippon Kaiji Kyokai



Confirmation

**PROFINET** 

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