# **SIEMENS**

## Data sheet

6GK5212-2BC00-2AA3



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 button, redundant power supply, PROFINET IO device, network management, Redundancy Manager integrated, incl. electron. manual on CD-ROM, C-plug optional

Product type designation	SCALANCE X212-2LD	
Transfer rate		
Transfer rate	10 Mbit/s, 100 Mbit/s	
Interfaces / for communication / Integrated		
Number of electrical connections		
• for network components or terminal equipment	12	
Number of 10/100 Mbit/s RJ45 ports / Integrated		
with securing collar	12	
Number of 100 Mbit/s ST(BFOC) ports		
• for single mode (LD)	2	
Interfaces / other		
Number of electrical connections		
<ul> <li>for signaling contact</li> </ul>	1	
• for power supply	1	
<ul> <li>for redundant voltage supply</li> </ul>	1	
Type of electrical connection		
<ul> <li>for signaling contact</li> </ul>	2-pole terminal block	
• for power supply	4-pole terminal block	

decian of the removable storage		
design of the removable storage	Vaa	
• C-PLUG	Yes	
Signal inputs/outputs		
Operating voltage / of the signaling contacts		
• at DC / Rated value	24 V	
Operating current / of the signaling contacts		
• at DC / maximum	0.1 A	
Supply voltage, current consumption, power loss		
Type of voltage / of the supply voltage	DC	
Supply voltage		
• external	24 V	
external / minimum	18 V	
external / maximum	32 V	
Product component / fusing at power supply input	Yes	
Fuse protection type / at input for supply voltage	1.1 A / 33 V	
Consumed current / maximum	0.33 A	
Power loss [W]		
• at DC / at 24 V	7.92 W	
Ambient conditions		
Ambient temperature		
<ul><li>during operation</li></ul>	-40 +60 °C	
during storage	-40 +70 °C	
during transport	-40 +70 °C	
Relative humidity		
<ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %	
Protection class IP	IP30	
Design	compact	
Width	120 mm	
Height	125 mm	
Depth	124 mm	
Net weight	1.2 kg	
Mounting type		
• 35 mm DIN rail mounting	Yes	
• wall mounting	Yes	
• S7-300 rail mounting	Yes	
● S7-1500 rail mounting	No	
- 07-1000 fail illouriting	Product features, product functions, product components / general	
Product features, product functions, product comp	onents / general	
Product features, product functions, product comp Cascading in the case of a redundant ring / at	onents / general	
Product features, product functions, product comp		

Product functions / management, configuration, eng	jineering
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
Port mirroring	Yes
multiport mirroring	No
• with IRT / PROFINET IO switch	No
<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes
PROFINET conformity class	В
Product function / switch-managed	Yes
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
<ul> <li>I&amp;M1 – higher-level designation/location</li> </ul>	Yes
designation	
Product functions / Diagnostics	
Product function	
Port diagnostics	Yes
Statistics Packet Size	Yes
<ul> <li>Statistics packet type</li> </ul>	Yes
• Error statistics	Yes
Product functions / DHCP	
Product function	
DHCP client	Yes
Product functions / redundancy	
Product function	

<ul> <li>Ring redundancy</li> </ul>	Yes
<ul> <li>High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	No
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
<ul> <li>media redundancy protocol (MRP) with redundancy manager</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	No
Passive listening	Yes
Product functions / Security	
Protocol / is supported	
• SSH	Yes
Product functions / time	
Product function	
SICLOCK support	Yes
Protocol / is supported	
• NTP	No
• SNTP	Yes
Standards, specifications, approvals	
Standard	
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4
• for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
• for hazardous zone / from CSA and UL	ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4
• for emitted interference	EN 61000-6-4:2001 (Class A)
• for interference immunity	EN 61000-6-2:2001
Standards, specifications, approvals / CE	
Certificate of suitability / CE marking	Yes
Standards, specifications, approvals / other	
Certificate of suitability	EN 61000-6-2:2001, EN 61000-6-4:2001
• C-Tick	Yes

• Railway application in accordance with EN No • Railway application in accordance with EN No 50124-1 Yes KC approval

### Standards, specifications, approvals / marine classification Ma

	nodion
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd.</li> <li>(ABS)</li> </ul>	Yes
● Bureau Veritas (BV)	Yes
<ul><li>Det Norske Veritas (DNV)</li></ul>	No
<ul> <li>Germanische Lloyd (GL)</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
<ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>	Yes

Yes

#### Standards, specifications, approvals / Product conformity

Royal Institution of Naval Architects (RINA)

51.18 y

#### Further information / Internet-Links

#### Internet-Link

• to website: Selector SIMATIC NET http://www.siemens.com/snst **SELECTION TOOL** 

• to website: Industrial communication http://www.siemens.com/simatic-net

https://mall.industry.siemens.com • to website: Industry Mall http://www.siemens.com/industry/infocenter • to website: Information and Download Center

http://automation.siemens.com/bilddb • to website: Image database

http://www.siemens.com/cax • to website: CAx Download Manager

https://support.industry.siemens.com • to website: Industry Online Support

Security information

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. Thirdparty products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

last modified:

11/11/2019