# **SIEMENS**

## Data sheet

6GK5212-2BC00-2AA3



SCALANCE X212-2LD, MANAGED IE SWITCH, 12 X 10/100MBIT/S RJ45 PORTS, 2 X 100MBIT/S SINGLEMODE BFOC, LED-DIAGNOSTICS, FAULT SIGNAL. CONTACT WITH SET BUTTON, REDUNDANT POWER SUPPLY PROFINET-IO DEVICE, NETWORK- MANAGEMENT, INTEGRATED REDUNDANCY MANAGER, INCL. ELECTRONIC MANUAL ON CD, C-PLUG OPTIONAL

Transmission 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 100 Mbit/s ST(BFOC) ports		
• for single mode (LD)	2	
Number of 100 Mbit/s SC ports		
• for multimode	0	
Number of 1000 Mbit/s LC ports		
• for multimode	0	
• for single mode (LD)	0	
Interfaces / others		
Number of electrical connections		
<ul> <li>for signaling contact</li> </ul>	1	
<ul><li>for power supply</li></ul>	1	
<ul> <li>for redundant voltage supply</li> </ul>	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	
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	18 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	
Dermitted embient conditions		
Permitted ambient conditions  Ambient temperature		
during operation	-40 +60 °C	
	-40 +70 °C	
during storage		
• during transport	-40 +70 °C	
Relative humidity	05.07	
<ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %	
Protection class IP	IP30	
Design, dimensions and weight		
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	
Product properties, functions, components / general		

Cascading in the case of a redundant ring / at	100
reconfiguration time of <\~0.3\~s	100
Cascading in cases of star topology	any (depending only on signal propagation time)
Product functions / management, configuration  Product function	
• CLI	Yes
	Yes
web-based management  AND support	Yes
MIB support	Yes
• TRAPs via email	
Configuration with STEP 7	Yes
Port mirroring	Yes
multiport mirroring	No
with IRT / PROFINET IO switch	No
<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes
• 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 / Diagnosis	
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	
Product function	
Ring redundancy	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	
<ul> <li>SICLOCK support</li> </ul>	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)
	EN 04000 0 0 0004
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2:2001
for interference immunity  Certificate of suitability / CE marking	EN 61000-6-2:2001 Yes
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<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
KC approval	Yes
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>	Yes
Germanische Lloyd (GL)	No
<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
<ul> <li>Royal Institution of Naval Architects (RINA)</li> </ul>	Yes
MTBF / at 40 °C	51.18 y

## Further Information / Internet Links

#### Internet-Link

• to website: Selector SIMATIC NET SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

#### Security information

Security information

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