SIEMENS

Data sheet	6AG1212-2BB00-4AA3

Product type designation

SIPLUS SCALANCE X212-2
SIPLUS NET SCALANCE X212-2 FOR MEDIAL STRESS WITH CONFORMAL COATING BASED ON 6GK5212-2BB00-2AA3 . MANAGED IE SWITCH, 12 X 10/100MBIT/S RJ45 PORTS, 2 X 100MBIT/S MULTIMODE 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	
• for network components or terminal equipment	12

Interfaces / others	
Number of electrical connections	
• for signaling contact	1
• for power supply	1
• for redundant voltage 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

Signal-Inputs/outputs	
Operating voltage / of the signaling contacts	

04/17/2017

• 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

Permitted ambient conditions

Ambient temperature	
• during operation	-40 ... +60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
Relative humidity	
• at 25 °C / without condensation / during operation / maximum	100 %
• with condensation / maximum	100 %; r.F., incl. condensation/frost permitted (no commissioning in bedewed state)
Ambient condition / relating to ambient temperature - air pressure - installation altitude	-40 ... +60 °C at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // -40 ... +50 °C at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // -40 ... +40 °C at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Resistance to biologically active substances / conformity acc. to EN 60721-3-3	Yes; Compliance with EN 60721-3-3, Class 3B2 mold, fungus, and sponge spores (except fauna). The supplied plug covers must remain in place over the unused interfaces during operation!
Resistance to chemically active substances / conformity acc. to EN 60721-3-3	Yes; Compliance with EN 60721-3-3, class 3C4 incl. salt spray according to EN 60068-2-52 (severity 3). The supplied plug covers must remain in place over the unused interfaces during operation!
Resistance to mechanically active substances / conformity acc. to EN 60721-3-3	Yes; Compliance with EN 60721-3-3, Class 3S4 including sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation!
Protection class IP	IP30

Design, dimensions and weight

Design	compact
Width	120 mm
Height	125 mm
Depth	124 mm
Net weight	1.2 kg

04/17/2017

Mounting type	
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes
• S7-300 rail mounting	Yes

Product properties, functions, components / general

Cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	50
Cascading in cases of star topology	any (depending only on signal propagation time)

Product functions / management, configuration

Product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
• Configuration with STEP 7	Yes
• SMTP server	Yes
• Port mirroring	Yes
• with IRT / PROFINET IO switch	No
• PROFINET IO diagnosis	Yes
• switch-managed	Yes
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	No
• GMRP	No
• DCP	Yes
• LLDP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
• IGMP (snooping/querier)	No

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
• High Speed Redundancy Protocol (HRP)	Yes
• high speed redundancy protocol (HRP) with redundancy manager	Yes
• high speed redundancy protocol (HRP) with standby redundancy	No
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
• media redundancy protocol (MRP) with redundancy manager	Yes
• 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 hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• for emitted interference	EN 61000-6-4 (Class A)
• for interference immunity	EN 61000-6-2
Certificate of suitability / CE marking	Yes
Certificate of suitability	EN 61000-6-2, EN 61000-6-4
• Railway application in accordance with EN 50155	No
• Railway application in accordance with EN 50124-1	No
• KC approval	Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No

04/17/2017

● Bureau Veritas (BV)	No
● Det Norske Veritas (DNV)	No
● Germanische Lloyd (GL)	No
● Lloyds Register of Shipping (LRS)	No
● Nippon Kaiji Kyokai (NK)	No
● Polski Rejestr Statkow (PRS)	No

Further Information / Internet Links

Internet-Link

● to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
● to website: Industrial communication	http://www.siemens.com/simatic-net
● to website: Industry Mall	https://mall.industry.siemens.com
● to website: Information and Download Center	http://www.siemens.com/industry/infocenter
● to website: Image database	http://automation.siemens.com/bilddb
● to website: CAx Download Manager	http://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

Security information

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. Third-party 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: 04/14/2017