



SIPLUS NET SCALANCE X212-2 for medial exposure with conformal coating based on 6GK5212-2BB00-2AA3 . Managed IE switch, 12x 10/100Mbit/s RJ45 ports, 2x 100 Mbit/s multimode BFOC, LED diagnostics, error signaling contact with set button, Redundant power supply, PROFINET IO device, network management, integr. redundancy manager, incl. electron. Manual on CD-ROM, C-plug optional

Product type designation	SIPLUS NET SCALANCE X212-2
Transfer rate	
Transfer rate	10 Mbit/s, 100 Mbit/s
Interfaces / for communication / Integrated	
Number of electrical connections	12
<ul style="list-style-type: none"> • for network components or terminal equipment 	
Interfaces / other	
Number of electrical connections	
<ul style="list-style-type: none"> • for signaling contact 	1
<ul style="list-style-type: none"> • for power supply 	1
<ul style="list-style-type: none"> • for redundant voltage supply 	1
Type of electrical connection	
<ul style="list-style-type: none"> • for signaling contact 	2-pole terminal block
<ul style="list-style-type: none"> • for power supply 	4-pole terminal block
design of the removable storage	
<ul style="list-style-type: none"> • C-PLUG 	Yes
Signal inputs/outputs	

Operating voltage / of the signaling contacts	
<ul style="list-style-type: none"> • at DC / Rated value 	24 V
Operating current / of the signaling contacts	
<ul style="list-style-type: none"> • at DC / maximum 	0.1 A

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage	
<ul style="list-style-type: none"> • external 	24 V
<ul style="list-style-type: none"> • external / minimum 	18 V
<ul style="list-style-type: none"> • 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]	
<ul style="list-style-type: none"> • at DC / at 24 V 	7.92 W

Ambient conditions

Ambient temperature / in horizontal mounting position / during operation	60 ... -40 °C
Ambient temperature / during storage and transport	70 ... -40 °C
Installation altitude / at height above sea level / maximum	5000 m
Relative humidity	
<ul style="list-style-type: none"> • with condensation / acc. to IEC 60068-2-38 / maximum 	100 %
Chemical resistance / to commercially available cooling lubricants	Yes
Resistance to biologically active substances	
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-3 	Yes
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-6 	Yes
Resistance to chemically active substances	
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-3 	Yes
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-6 	Yes
Resistance to mechanically active substances	
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-3 	Yes
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-6 	Yes
Coating / for equipped printed circuit board / acc. to EN 61086	Yes
Type of coating	
<ul style="list-style-type: none"> • protection against pollution according to EN 60664-3 	Yes
Type of test / of the coating / acc. to MIL-I-46058C	Yes

Product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A	Yes
Protection class IP	IP30

Design, dimensions and weights

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

Product features, product functions, product components / general

Cascading in the case of a redundant ring / at reconfiguration time of $\sim 0.3\text{ s}$	50
Cascading in cases of star topology	any (depending only on signal propagation time)

Product functions / management, configuration, engineering

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
Product function / 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 / 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

- 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

Standards, specifications, approvals / CE

Certificate of suitability / CE marking Yes

Standards, specifications, approvals / other

Certificate of suitability	EN 61000-6-2, EN 61000-6-4
<ul style="list-style-type: none"> • Railway application in accordance with EN 50155 	No
<ul style="list-style-type: none"> • Railway application in accordance with EN 50124-1 	No
<ul style="list-style-type: none"> • KC approval 	Yes

Standards, specifications, approvals / marine classification

Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) 	No
<ul style="list-style-type: none"> • Bureau Veritas (BV) 	No
<ul style="list-style-type: none"> • Det Norske Veritas (DNV) 	No
<ul style="list-style-type: none"> • Germanische Lloyd (GL) 	No
<ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) 	No
<ul style="list-style-type: none"> • Nippon Kaiji Kyokai (NK) 	No
<ul style="list-style-type: none"> • Polski Rejestr Statkow (PRS) 	No

Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL 	http://www.siemens.com/snst
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx Download Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • 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)

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