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Data sheet 6GK5612-0BA10-2AA3

product type designation	**S612**
	********** spare part ********* SCALANCE S612 module for protection of devices and networks in automation technology and for protection of industrial communication by means of VPN and firewall; further functions: address conversion (NAT/NAPT), DHCP server, Syslog, symbolic names for IP addresses.



product brand name	SCALANCE
transfer rate	
transfer rate	10, 100, 1000 Mbit/s
interfaces	
number of electrical/optical connections / for network components or terminal equipment / maximum	2
number of electrical connections	
● for internal network	1
● for external network	1
● for DMZ	0
● for signaling contact	1
● for power supply	1
● for redundant voltage supply	1
type of electrical connection	
● for internal network	RJ45 port
● for external network	RJ45 port
● 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
operational current / of the signaling contacts / at DC / maximum	0.1 A
supply voltage, current consumption, power loss	
type of voltage / 1 / of the supply voltage	DC
● supply voltage / 1 / rated value	24 V
● power loss [W] / 1 / rated value	6.72 W
● supply voltage / 1 / rated value	19.2 ... 28.8 V
● consumed current / 1 / maximum	0.5 A
● product component / 1 / fusing at power supply input	Yes
● fuse protection type / 1 / at input for supply voltage	Non-replaceable melting fuse (F 3 A / 32 V)
ambient conditions	
ambient temperature	
● during operation	-40 ... +60 °C
● during storage	-40 ... +80 °C
● during transport	-40 ... +80 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP20

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design, dimensions and weights	
design	compact
width	60 mm
height	125 mm
depth	124 mm
net weight	0.8 kg
fastening method	Screw mounting on horizontal and vertical surfaces
fastening method	
● 35 mm DIN-rail mounting	Yes
● S7-300 rail mounting	Yes
● wall mounting	Yes
product features, product functions, product components / general	
product function / DynDNS client	Yes
protocol / is supported / PPPoE	Yes
product functions / management, configuration, engineering	
product function	
● symbolic names for IP addresses	Yes
protocol / is supported	
● SNMP v1	Yes
● SNMP v3	Yes
type of configuration	SCT: Security Configuration Tool (included in scope of delivery)
product functions / diagnostics	
product function	
● SysLog	Yes
● packet filter log	Yes
● audit log	Yes
● system log	Yes
product functions / DHCP	
product function	
● DHCP server - internal network	Yes
product functions / routing	
product function / static IP routing	Yes
product functions / security	
firewall version	stateful inspection
product function / with VPN connection	IPsec
type of encryption algorithms / with VPN connection	AES-256, AES-192, AES-128, 3DES-168, DES-56
type of authentication procedure / with VPN connection	Preshared key (PSK), X.509v3 certificates
type of hashing algorithms / with VPN connection	MD5, SHA-1
number of possible connections / with VPN connection	128
number of network nodes / for internal network / with VPN connection	
● maximum	128
● note	Limitation only applies in bridge mode. No limitation in routing mode
product function	
● password protection	Yes
● bandwidth limitation	Yes
● NAT/NAPT	Yes
product functions / time	
product function / pass on time synchronization	Yes
protocol / is supported / NTP	Yes
product component / hardware real time clock	Yes
product feature / hardware real time clock w. battery backup	Yes
standards, specifications, approvals	
standard / for FM	FM 3611
standard	
● for safety / from CSA and UL	UL 60950 / CSA C22.2 No. 60950-00, UL 508 / CSA C22.2 No. 142
● for emitted interference	EN 61000-6-4: 2007
● for interference immunity	EN 61000-6-2: 2005
certificate of suitability	AS/NZS 2064 (Class A), EN 61000-6-2, EN 61000-6-4, marine classification

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	available soon
• CE marking	Yes
• C-Tick	Yes
standards, specifications, approvals / marine classification	
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• French marine classification society (BV)	Yes
• Det Norske Veritas (DNV)	No
• Germanische Lloyd (GL)	No
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	No
• Polski Rejestr Statkow (PRS)	No
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA IIT.., KEMA 07 ATEX 0145 X
accessories	
product extension / optional	
• C-PLUG	Yes
further information / internet links	
internet link	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://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 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 networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

Declaration of Conformity | China RoHS | Manufacturer Declaration

General Product Approval	EMV	For use in hazardous locations	Maritime application
Miscellaneous		FM	

Maritime application	other

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Confirmation

Dangerous goods

Dangerous goods information

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