SIEMENS

Data sheet

6GK5642-2GS00-2AC2

product type designation



SC642-2C

SCALANCE SC642-2C Industrial Security Appliance; For protection of devices and networks in discrete manufacturing and the process industry for protection of the industrial communication with firewall and VPN; Further functions: address conversion (NAT/NAPT); Connection to SINEMA RC; 2x combo port electrical or optical; 10/100/1000 Mbit/s RJ45 or 100 Mbit/s SFP or 1000 Mbit/s SFP.

transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
interfaces	
number of electrical/optical connections / for network components or terminal equipment / maximum	2
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	
number of electrical connections	
 for digital input signals 	1
type of electrical connection	
 for digital input signals 	2-pole terminal block
for digital output signals	2-pole terminal block
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	
supply voltage / 1 / rated value	24 V; (with plugged-in SFPs)
power loss [W] / 1 / rated value	9.12 W
supply voltage / 1 / rated value	9.6 31.2 V
consumed current	
• 1 / maximum	0.38 A
ambient conditions	
ambient temperature	
 during operation 	-40 +70 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP20
design, dimensions and weights	
design	compact
width	60 mm
height	145 mm

depth	125 mm
net weight	0.58 kg
fastening method	Fixing bolt with additional screw protection
fastening method	1 Ixing boil with additional screw protection
35 mm top hat DIN rail mounting	Yes
S7-300 rail mounting	Yes
S7-1500 rail mounting	Yes
wall mounting	Yes
product features, product functions, product components / gene	
product function / DynDNS client	Yes
product functions / management, configuration, engineering	
product function	
• CLI	Yes
 web-based management 	Yes
MIB support	Yes
protocol / is supported	
• Telnet	No
• HTTP	No
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• SFTP	Yes
• DCP	Yes
• LLDP	Yes
• SNMP v1	Yes
SNMP v2	Yes
• SNMP v3	Yes
product function	
• RMON	Yes
 port mirroring 	Yes
 multiport mirroring 	Yes
• CoS	Yes
type of configuration	WBM, CLI, SNMP
PROFINET conformity class	A
product functions / diagnostics	
product function	
 SysLog 	Yes
 packet filter log 	Yes
• audit log	Yes
• system log	Yes
• port diagnostics	Yes
statistics Packet Size	Yes
statistics packet type	Yes
error statistics	Yes
product functions / DHCP	
product function	V
DHCP client	Yes
DHCP server - internal network PUOP Online CO.	Yes
DHCP Option 66 DUCP Option 67	Yes
DHCP Option 67 Translate for a first	Yes
product functions / routing	Voc
product function / static IP routing	Yes
protocol / is supported / VRRP	Yes
product function / static IP routing IPv6	Yes
protocol / is supported / OSPFv2	Yes
product functions / security	
firewall version	stateful inspection
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, SHA-256, SHA-384, SHA-512

number of possible connections / with VPN connection	200
product function	
 password protection 	Yes
bandwidth limitation	No
• NAT/NAPT	Yes
• IEEE 802.1x (radius)	Yes
 broadcast/multicast/unicast limiter 	Yes
broadcast blocking	Yes
protocol / is supported / SSH	Yes
product functions / redundancy	
product function	
standby redundancy	Yes
product function	
 redundancy procedure STP 	Yes
• redundancy procedure RSTP	Yes
passive listening	Yes
product functions / time	
protocol / is supported / NTP	Yes
protocol / is supported / SNTP	Yes
product feature / hardware real time clock w. battery backup	Yes
standards, specifications, approvals	
standard	
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
CE marking	Yes
• C-Tick	Yes
• CCC	Yes
MTBF	37.83 a
INITIDI	37.03 a
reference temperature	40 °C
standards, specifications, approvals / marine classification	40.0
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	Yes
DNV GL Konsen Denistan of Objection (KDO)	Yes
Korean Register of Shipping (KRS)	Yes
Lloyds Register of Shipping (LRS)	Yes
Nippon Kaiji Kyokai (NK)	Yes
 Polski Rejestr Statkow (PRS) 	Yes
Royal Institution of Naval Architects (RINA)	Yes
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA IIC T4 Gc, KEMA
contificate of quitability / CCC / for home	07ATEX0145 X
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
as marking	Ex nA IIC T4 Gc
accessories	
product extension / optional / C-PLUG	Yes
further information / internet links	
internet link	
to website: Industrial communication	http://www.siemens.com/simatic-net
to website: Industry Mall to website: Information and Download Contor	https://mall.industry.siemens.com
to website: Information and Download Center to website: Image details and Download Center	http://www.siemens.com/industry/infocenter
to website: Image database	http://automation.siemens.com/bilddb
to website: CAx-Download-Manager to web sites to develop Online Owners	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:

8/11/2023