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 $^\circ\text{C}$ / 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			
 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	eral		
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			
DHCP client	Yes		
 DHCP server - internal network 	Yes		
DHCP Option 66	Yes		
DHCP Option 67	Yes		
product functions / routing			
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	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	
	Yes
standby redundancy	
product function	Vee
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
reference temperature	40 °C
standards, specifications, approvals / marine classification	
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
 French marine classification society (BV) 	Yes
DNV GL	Yes
Korean Register of Shipping (KRS)	Yes
Lloyds Register of Shipping (LRS)	Yes
Nippon Kaiji Kyokai (NK) Deleti Beisete Otethew (RDO)	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
	07ATEX0145 X
certificate of suitability / CCC / for hazardous zone according to	
certificate of suitability / CCC / for hazardous zone according to GB standard	07ATEX0145 X
certificate of suitability / CCC / for hazardous zone according to GB standard • as marking	07ATEX0145 X Yes
certificate of suitability / CCC / for hazardous zone according to GB standard • as marking accessories	07ATEX0145 X Yes Ex nA IIC T4 Gc
certificate of suitability / CCC / for hazardous zone according to GB standard • as marking accessories product extension / optional / C-PLUG	07ATEX0145 X Yes
certificate of suitability / CCC / for hazardous zone according to GB standard • as marking accessories product extension / optional / C-PLUG further information / internet links	07ATEX0145 X Yes Ex nA IIC T4 Gc
certificate of suitability / CCC / for hazardous zone according to GB standard • as marking accessories product extension / optional / C-PLUG further information / internet links internet link	07ATEX0145 X Yes Ex nA IIC T4 Gc Yes
certificate of suitability / CCC / for hazardous zone according to GB standard • as marking accessories product extension / optional / C-PLUG further information / internet links internet link • to website: Industrial communication	07ATEX0145 X Yes Ex nA IIC T4 Gc Yes http://www.siemens.com/simatic-net
certificate of suitability / CCC / for hazardous zone according to GB standard • as marking accessories product extension / optional / C-PLUG further information / internet links internet link • to website: Industrial communication • to website: Industry Mall	07ATEX0145 X Yes Ex nA IIC T4 Gc Yes http://www.siemens.com/simatic-net https://mall.industry.siemens.com
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certificate of suitability / CCC / for hazardous zone according to GB standard • as marking accessories product extension / optional / C-PLUG further information / internet links internet link • to website: Industrial communication • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database	07ATEX0145 X Yes Ex nA IIC T4 Gc Yes http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb
certificate of suitability / CCC / for hazardous zone according to GB standard • as marking accessories product extension / optional / C-PLUG further information / internet links internet link • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx-Download-Manager	07ATEX0145 X Yes Ex nA IIC T4 Gc Yes http://www.siemens.com/simatic-net http://www.siemens.com/simatic-net http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax
certificate of suitability / CCC / for hazardous zone according to GB standard • as marking accessories product extension / optional / C-PLUG further information / internet links internet link • to website: Industrial communication • to website: Industrial communication • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: CAx-Download-Manager • to website: Industry Online Support	07ATEX0145 X Yes Ex nA IIC T4 Gc Yes http://www.siemens.com/simatic-net http://www.siemens.com/simatic-net http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax

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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