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Data sheet 6GK5876-4AA00-2DA2

product type designation	**M876-4 LTE (NAM)**



********** spare part ********* SCALANCE M876-4 LTE (4G) NAM; for wireless IP communication from Ethernet- based automation devices via LTE (4G) mobile radio, optimized for use in North America, VPN, firewall, NAT; 4-port switch; 2x SMA antennas, MIMO technology; 1x digital input, 1x digital output; observe national approvals.

product brand name	SCALANCE
transfer rate	
transfer rate / for Industrial Ethernet	10, 100 Mbit/s
transfer rate	
● for GPRS transmission / with downlink / maximum	85.6 kbit/s
● for GPRS transmission / with uplink / maximum	85.6 kbit/s
● with eGPRS transmission / with downlink / maximum	236.8 kbit/s
● with eGPRS transmission / with uplink / maximum	236.8 kbit/s
● with UMTS transmission / with downlink / maximum	14.4 Mbit/s
● with UMTS transmission / with uplink / maximum	5.76 Mbit/s
● for LTE transmission / with downlink / maximum	100 Mbit/s
● for LTE transmission / with uplink / maximum	50 Mbit/s
interfaces	
number of electrical connections	
● for internal network	4
● for external network	2
number of electrical connections	
● for power supply	2
type of electrical connection	
● for internal network	RJ45 port (10/100 Mbit/s, TP, autocrossover)
● for external antenna(s)	SMA antenna socket (50 ohms)
● for power supply	Terminal strip
WAN connection	
type of wireless network / is supported	LTE, UMTS, GSM
type of mobile wireless service / is supported	GPRS, eGPRS, HSPA+
operating frequency / for GSM transmission	850 MHz, 900 MHz, 1800 MHz, 1900 MHz
operating frequency / with UMTS transmission	850 MHz, AWS-1 (1700/2100) MHz, 1900 MHz
operating frequency / for LTE transmission	700 MHz, 850 MHz, AWS-1 (1700/2100) MHz, 1900 MHz
supply voltage, current consumption, power loss	
supply voltage / rated value	10.8 ... 28.8
consumed current	
● at DC / at 24 V / typical	0.33 A
power loss [W]	
● maximum	8 W
supply voltage / 1 / rated value	24 V
● type of voltage / 1 / of the supply voltage	DC
ambient conditions	
ambient temperature	

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● during operation	-20 ... +70 °C
● during storage	-40 ... +85 °C
relative humidity / at 25 °C / during operation / maximum	95 %
protection class IP	IP20
design, dimensions and weights	
design	compact
depth	127 mm
height	147 mm
width	35 mm
net weight	389 g
fastening method	
● 35 mm DIN-rail mounting	Yes
● S7-300 rail mounting	Yes
● S7-1500 rail mounting	Yes
● wall mounting	Yes
product features, product functions, product components / general	
product function	
● DynDNS client	Yes
● no-ip.com client	Yes
product functions / management, configuration, engineering	
product function	
● CLI	Yes
● web-based management	Yes
● MIB support	Yes
● TRAPs via email	Yes
protocol / is supported	
● Telnet	Yes
● HTTP	Yes
● HTTPS	Yes
type of configuration	Web-based management
product functions / diagnostics	
protocol / is supported	
● SNMP v1	Yes
● SNMP v2	Yes
● SNMP v2c	Yes
● SNMP v3	Yes
product function	
● statistics Packet Size	No
● statistics packet type	No
● error statistics	No
● SysLog	Yes
● packet filter log	Yes
product functions / DHCP	
product function	
● DHCP client	Yes
● DHCP server - internal network	Yes
product functions / routing	
router function	
● NAT (IP masquerading)	Yes
● port forwarding	Yes
● NAT traversal	Yes
● 1:1 NAT	Yes
● DNS cache	Yes
product functions / security	
suitability for operation / Virtual Private Network	Yes
firewall version	Statefull Inspection
product function	
● password protection	Yes

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● packet filter	Yes
● broadcast/multicast/unicast limiter	No
product function	
● broadcast blocking	No
● with VPN connection	IPsec, OpenVPN (as Client)
number of possible connections / with VPN connection	20
type of authentication / with Virtual Private Network / PSK	Yes
protocol / is supported	
● IPsec tunnel and transport mode	Yes
key length	
● 1 / with IPsec AES / with Virtual Private Network	128 bit
● 2 / with IPsec AES / with Virtual Private Network	192 bit
● 3 / with IPsec AES / with Virtual Private Network	256 bit
● with IPsec 3DES / with Virtual Private Network	168 bit
type of internet key exchange / with Virtual Private Network	
● main mode	Yes
● quick mode	Yes
type of packet authentication / with Virtual Private Network	MD5, SHA-1, SHA-256, SHA-384, SHA-512
IETF profile / with Virtual Private Network / X.509v3 certificate	Yes
product functions / time	
protocol / is supported	
● NTP	Yes
● SNTP	Yes
standards, specifications, approvals	
standard	
● for EMC	FCC CFR 47, Part 15, Subpart B
● for FM	FM16US0205X, FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4
● for safety / from CSA and UL	UL 60950-1 E115352, CAN/CSA C22.2 No. 60950-1-07, UL E115352 Vol. X2
● for hazardous zone / from CSA and UL	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC E240480
certificate of suitability	
● CCC approval	Yes; GB3836.1, GB3836.8, Ex nA IIC T4 Gc
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	280.14 kg
● during manufacturing	29.35 kg
● during operation	250.33 kg
● after end of life	0.46 kg
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Mobile radio national approval	https://www.siemens.com/mobile-approvals
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● 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

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Approvals / Certificates

General Product Approval			For use in hazardous locations		
EAC	China RoHS	UL	IECEx	ATEX	CCC-Ex

Radio Equipment Type Approval Certificate	Environment	Industrial Communication
Miscellaneous	EPD	PROFINET

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