SIEMENS

Data sheet

6GK5876-4AA00-2DA2

Product type designation



SCALANCE M876-4 LTE (NAM)

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!

Transfer rate	
Transfer rate	10 Mbit/s, 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 network	SMA antenna socket (50 ohms)
• for power supply	Terminal strip
Signal inputs/outputs	
Number of electrical connections	
for digital input signals	1
for digital output signals	1
Type of electrical connection	
 for digital input signals 	Terminal block
for digital output signals	Terminal block
WAN connection	
Type of mobile network / is supported	GSM, UMTS, LTE
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	24 V
Supply voltage / rated value	10.8 28.8
Type of voltage / of the supply voltage	DC
Consumed current / at rated supply voltage /	330 mA
maximum	
Power loss [W]	
• maximum	8 W
Ambient conditions	
Ambient temperature	
during operation	-20 +70 °C
during storage	-40 +85 °C
Relative humidity / at 25 °C / during operation /	95 %
maximum	
Protection class IP	IP20
Design	compact
Mounting type	
• 35 mm DIN rail mounting	Yes
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
-	

• wall mounting Yes

No

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

• CI I

• 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

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

Product functions / Security	
Suitability for operation / Virtual Private Network	Yes
Firewall version	Statefull Inspection
Product function	
 Password protection 	Yes
• 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	500 05D 47 D 445 0 L 4D
• for EMC	FCC CFR 47, Part 15, Subpart B
• for cafety / from CSA and LII	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4 UL 60950-1, CAN/CSA C22.2 No. 60950-1-07, UL E115352 Vol.
for safety / from CSA and UL	V2

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

Further information / Internet-Links

Internet-Link

• to website: Selector for cables and connectors

• to website: Selector SIMATIC NET

SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

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http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

Security information

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