# **SIEMENS**

# Data sheet

# 6GK5876-4AA00-2DA2



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	
<ul><li>for GPRS transmission / with downlink / maximum</li></ul>	85.6 kbit/s
• for GPRS transmission / with uplink / maximum	85.6 kbit/s
<ul> <li>with eGPRS transmission / with downlink / maximum</li> </ul>	236.8 kbit/s
<ul><li>with eGPRS transmission / with uplink / maximum</li></ul>	236.8 kbit/s
<ul> <li>with UMTS transmission / with downlink / maximum</li> </ul>	14.4 Mbit/s
<ul> <li>with UMTS transmission / with uplink / maximum</li> </ul>	5.76 Mbit/s
• for LTE transmission / with downlink / maximum	100 Mbit/s
• for LTE transmission / with uplink / maximum	50 Mbit/s
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Number of electrical connections

• for internal network

<ul><li>for external network</li></ul>	2
Number of electrical connections	
• for power supply	2
Type of electrical connection	
<ul><li>for internal network</li></ul>	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	
<ul><li>during operation</li></ul>	-20 +70 °C
during storage	-40 +85 °C
Relative humidity / at 25 °C / during operation /	95 %
maximum	
Protection class IP	IP20
Design, dimensions and weights	
Design	compact
Depth	127 mm
Height	147 mm
Width	35 mm

Mounting type

• 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 • no-ip.com client Yes Yes

Product functions / management, configuration, engineering	
Product function	
• CLI	Yes
<ul><li>web-based management</li></ul>	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	
<ul> <li>Statistics Packet Size</li> </ul>	No
<ul> <li>Statistics packet type</li> </ul>	No
• Error statistics	No
<ul><li>SysLog</li></ul>	Yes
Packet Filter Log	Yes

Product functions / DHCP	
Product function	
<ul> <li>DHCP client</li> </ul>	Yes
DHCP server - internal network	Yes

Product functions / Routing	
Router function	
<ul> <li>NAT (IP masquerading)</li> </ul>	Yes
Port forwarding	Yes
NAT traversal	Yes

1:1 NATDNS cacheYes

Suitability for operation / Virtual Private Network Firewall version	Yes
Duradicat formation	Statefull Inspection
Product function	
<ul> <li>Password protection</li> </ul>	Yes
• packet filter	Yes
<ul> <li>Broadcast/Multicast/Unicast Limiter</li> </ul>	No
Product function	
<ul> <li>broadcast blocking</li> </ul>	No
<ul><li>with VPN connection</li></ul>	IPsec, OpenVPN (as Client)
Number of possible connections / with VPN connection	20
Type of authentication / with Virtual Private Network / PSK	Yes
Protocol / is supported	
<ul> <li>IPsec tunnel and transport mode</li> </ul>	Yes
Key length	
<ul><li>1 / with IPsec AES / with Virtual Private Network</li></ul>	128 bit
<ul><li>2 / with IPsec AES / with Virtual Private Network</li></ul>	192 bit
<ul> <li>3 / with IPsec AES / with Virtual Private</li> <li>Network</li> </ul>	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
roduct functions / time	
Protocol / is supported	
• NTP	Yes
• SNTP	Yes

# Standards, specifications, approvals

Standard

• for EMC FCC CFR 47, Part 15, Subpart B

for FM

• for safety / from CSA and UL

• for hazardous zone / from CSA and UL

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. X2

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

http://www.siemens.com/snst

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

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)

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