SIEMENS

Data sheet

6GK5876-4AA00-2BA2

Product type designation



SCALANCE M876-4 LTE (EU)

SCALANCE M876-4 4G router; for the wireless IP communication from Ethernet-based Programmable controllers via LTE (4G) mobile radio optimized for use in Europe, VPN, Firewall, NAT; 4-port switch; 2x SMA antennas, MIMO Technology; 1x digital input, 1x digital output; observe national approvals!

Transmission 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

4
2
2
RJ45 port (10/100 Mbit/s, TP, autocrossover)
SMA antenna socket (50 ohms)
Terminal strip
1
1
Terminal block
Terminal block
GSM, UMTS, LTE
GPRS, eGPRS, HSPA+
900 MHz, 1800 MHz
900 MHz, 1800 MHz, 2100 MHz
800 MHz, 900 MHz, 1800 MHz, 2100 MHz, 2600 MHz
24 V
10.8 28.8
DC
330 mA
8 W
-20 +70 °C
-40 +85 °C
95 %
IP20
compact
compact 127 mm
compact

Mounting type	
• 35 mm DIN rail mounting	Yes
S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
wall mounting	Yes
waii mounting	100
Product properties, functions, components / ge	neral
Product function	
DynDNS-Client	Yes
• no-ip.com client	Yes
Product functions / management, configuration	
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 / Diagnosis	
Product functions / Diagnosis Protocol / is supported	
	Yes
Protocol / is supported	Yes Yes
Protocol / is supported • SNMP v1	
Protocol / is supported • SNMP v1 • SNMP v2	Yes
Protocol / is supported • SNMP v1 • SNMP v2 • SNMP v2c	Yes Yes
Protocol / is supported SNMP v1 SNMP v2 SNMP v2c SNMP v3	Yes Yes
Protocol / is supported • SNMP v1 • SNMP v2 • SNMP v2c • SNMP v3 Product function	Yes Yes Yes
Protocol / is supported SNMP v1 SNMP v2 SNMP v2c SNMP v3 Product function Statistics Packet Size	Yes Yes Yes No
Protocol / is supported SNMP v1 SNMP v2 SNMP v2c SNMP v3 Product function Statistics Packet Size Statistics packet type	Yes Yes Yes No No
Protocol / is supported SNMP v1 SNMP v2 SNMP v2c SNMP v3 Product function Statistics Packet Size Statistics packet type Error statistics	Yes Yes Yes No No No
Protocol / is supported SNMP v1 SNMP v2 SNMP v2c SNMP v3 Product function Statistics Packet Size Statistics packet type Error statistics SysLog Packet Filter Log	Yes Yes Yes No No No No Yes
Protocol / is supported SNMP v1 SNMP v2 SNMP v2c SNMP v3 Product function Statistics Packet Size Statistics packet type Error statistics SysLog	Yes Yes Yes No No No No Yes
Protocol / is supported SNMP v1 SNMP v2 SNMP v2c SNMP v3 Product function Statistics Packet Size Statistics packet type Error statistics SysLog Packet Filter Log Product functions / DHCP	Yes Yes Yes No No No No Yes
Protocol / is supported SNMP v1 SNMP v2 SNMP v2c SNMP v3 Product function Statistics Packet Size Statistics packet type Error statistics SysLog Packet Filter Log Product functions / DHCP Product function	Yes Yes Yes No No No Yes Yes
Protocol / is supported SNMP v1 SNMP v2 SNMP v2c SNMP v3 Product function Statistics Packet Size Statistics packet type Error statistics SysLog Packet Filter Log Product functions / DHCP Product function DHCP client DHCP server - internal network	Yes Yes Yes No No No Yes Yes Yes
Protocol / is supported SNMP v1 SNMP v2 SNMP v2c SNMP v3 Product function Statistics Packet Size Statistics packet type Error statistics SysLog Packet Filter Log Product functions / DHCP Product function DHCP client	Yes Yes Yes No No No Yes Yes Yes
Protocol / is supported SNMP v1 SNMP v2 SNMP v2c SNMP v3 Product function Statistics Packet Size Statistics packet type Error statistics SysLog Packet Filter Log Product functions / DHCP Product function DHCP client DHCP server - internal network	Yes Yes Yes No No No Yes Yes Yes
Protocol / is supported SNMP v1 SNMP v2 SNMP v2c SNMP v3 Product function Statistics Packet Size Statistics packet type Error statistics SysLog Packet Filter Log Product functions / DHCP Product function DHCP client DHCP server - internal network Product functions / Routing Router function	Yes Yes Yes No No No Yes Yes Yes Yes

NAT traversal	Yes
• 1:1 NAT	Yes
• DNS cache	Yes

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	

ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, • for EMC EN 61000-6-2, EN 61000-6-4 EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA • for hazardous zone 07ATEX0145 X ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, • for emitted interference EN 61000-6-4 ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, • for interference immunity EN 61000-6-2 Certificate of suitability Yes CE marking Yes Railway application in accordance with EN 50121-3-2 Yes • Railway application in accordance with EN 50121-4 Railway application in accordance with EN Yes; no coated printed circuit boards 50155 Yes; cat. 1, cl.A and cl. B railway application in accordance with EN 61373

Yes

Further Information / Internet Links

Internet-Link

• to website: Selector for cables and connectors

• Fire protection in accordance with EN 45545-2

• 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

 $\underline{\text{https://support.industry.siemens.com}}$

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. Thirdparty 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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