SIEMENS

Data sheet

6GK5876-3AA02-2BA2

Product type designation



SCALANCE M876-3 3G

SCALANCE M876-3 3G router; for the wireless IP communication of Ethernet-based Programmable controllers via 3G mobile radio HSPA+/EV-DO, VPN, Firewall, NAT 4-port switch; Antenna diversity; 1x digital input, 1x digital output; observe national approvals! Observe provider's 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 EV-DO transmission / for forward link / maximum 	3.1 Mbit/s
for EV-DO transmission / for reverse link / maximum	1.8 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, CDMA, EV-DO
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	800 MHz, 850 MHz, 900 MHz, 1900 MHz, 2100 MHz
Operating frequency / for CDMA2000 transmission	800 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 / maximum	330 mA
Power loss [W]	
• maximum	8 W
Permitted ambient conditions	
Ambient temperature	
during operation	-20 +60 °C
during storage	-40 +85 °C
Relative humidity / at 25 °C / during operation /	95 %
maximum	
Protection class IP	IP20
Design, dimensions and weight	
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 properties, functions, components / general		
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		
Protocol / is supported		
• SNMP v1	Yes	
• SNMP v2		
	Yes	
• SNMP v2c	Yes	
• SNMP v3		
SNMP v3 Product function	Yes Yes	
• SNMP v3	Yes	
SNMP v3 Product function	Yes Yes	
SNMP v3 Product function Statistics Packet Size	Yes Yes No	
SNMP v3 Product function Statistics Packet Size Statistics packet type	Yes Yes No No	
 SNMP v3 Product function Statistics Packet Size Statistics packet type Error statistics 	Yes Yes No No No	
SNMP v3 Product function Statistics Packet Size Statistics packet type Error statistics SysLog Packet Filter Log Product functions / DHCP	Yes Yes No No No Yes	
SNMP v3 Product function Statistics Packet Size Statistics packet type Error statistics SysLog Packet Filter Log Product functions / DHCP Product function	Yes Yes No No No Yes Yes	
SNMP v3 Product function Statistics Packet Size Statistics packet type Error statistics SysLog Packet Filter Log Product functions / DHCP	Yes Yes No No No Yes Yes Yes	
SNMP v3 Product function Statistics Packet Size Statistics packet type Error statistics SysLog Packet Filter Log Product functions / DHCP Product function	Yes Yes No No No Yes Yes	
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 No No No Yes Yes Yes	

 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
• 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

for FM

• for hazardous zone

• for safety / from CSA and UL

• for hazardous zone / from CSA and UL

• for emitted interference

• for interference immunity

Certificate of suitability

CE marking

ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4

FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4

EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X

UL 60950-1, CAN/CSA C22.2 No. 60950-1-07, UL E115352 Vol.

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

ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4

ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2

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

Yes

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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