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Data sheet

6GK5876-3AA02-2BA2



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!

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 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	2
	2
• for power supply Type of electrical connection	2
	P 145 part (10/100 Mbit/a TD autographyor)
• 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
30/031	
WAN connection Type of mobile network / is supported	GSM, UMTS, CDMA, EV-DO
Type of mobile vireless 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
Operating frequency / for ODMA2000 transmission	000 WH 12, 1300 WH 12
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]	244
● maximum	8 W
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 weights	
Design Design	compact
Depth	127 mm
Height	147 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 comp	opents / general	
Product function	onents / general	
DynDNS client	Yes	
• no-ip.com client	Yes	
Product functions / management, configuration, er	ngineering	
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
• 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

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

2, Group IIC, T4

EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA • for hazardous zone

07ATEX0145 X UL 60950-1, CAN/CSA C22.2 No. 60950-1-07, UL E115352 Vol. for safety / from CSA and UL

ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, CL. 1, • for hazardous zone / from CSA and UL 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, • 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

Further information / Internet-Links

Internet-Link

http://www.siemens.com/snst • to website: Selector for cables and connectors

• to website: Selector SIMATIC NET http://www.siemens.com/snst

SELECTION TOOL

http://www.siemens.com/simatic-net • to website: Industrial communication https://mall.industry.siemens.com

• to website: Industry Mall

http://www.siemens.com/industry/infocenter • to website: Information and Download Center

to website: Image database

http://www.siemens.com/cax • to website: CAx Download Manager

https://support.industry.siemens.com • to website: Industry Online Support

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)

http://automation.siemens.com/bilddb

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