## **SIEMENS**

## Data sheet

## 6GK5876-4AA00-2BA2



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!

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	
<ul> <li>for GPRS transmission / with uplink / maximum</li> </ul>	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	
<ul> <li>for LTE transmission / with downlink / maximum</li> </ul>	100 Mbit/s	
<ul> <li>for LTE transmission / with uplink / maximum</li> </ul>	50 Mbit/s	
Interfaces		
Number of electrical connections		
<ul> <li>for internal network</li> </ul>	4	

<ul> <li>for external network</li> </ul>	2
Number of electrical connections	
	2
• for power supply	2
Type of electrical connection	
<ul> <li>for internal network</li> </ul>	RJ45 port (10/100 Mbit/s, TP, autocrossover)
<ul> <li>for external network</li> </ul>	SMA antenna socket (50 ohms)
<ul> <li>for power supply</li> </ul>	Terminal strip
Signal inputs/outputs	
Number of electrical connections	
<ul> <li>for digital input signals</li> </ul>	1
<ul> <li>for digital output signals</li> </ul>	1
Type of electrical connection	
<ul> <li>for digital input signals</li> </ul>	Terminal block
<ul> <li>for digital output signals</li> </ul>	Terminal block
M/ANL composition	
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	900 MHz, 1800 MHz
Operating frequency / with UMTS transmission	900 MHz, 1800 MHz, 2100 MHz
Operating frequency / for LTE transmission	800 MHz, 900 MHz, 1800 MHz, 2100 MHz, 2600 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
maximum     Ambient conditions	8 W
	8 W
Ambient conditions	8 W -20 +70 °C
Ambient conditions Ambient temperature	
Ambient conditions Ambient temperature • during operation	-20 +70 °C
Ambient conditions Ambient temperature • during operation • during storage	-20 +70 °C -40 +85 °C
Ambient conditions Ambient temperature  • during operation • during storage Relative humidity / at 25 °C / during operation /	-20 +70 °C -40 +85 °C
Ambient conditions         Ambient temperature         • during operation         • during storage         Relative humidity / at 25 °C / during operation / maximum         Protection class IP	-20 +70 °C -40 +85 °C 95 %
Ambient conditions Ambient temperature  • during operation  • during storage Relative humidity / at 25 °C / during operation / maximum	-20 +70 °C -40 +85 °C 95 %
Ambient conditions         Ambient temperature         • during operation         • during storage         Relative humidity / at 25 °C / during operation / maximum         Protection class IP         Design, dimensions and weights	-20 +70 °C -40 +85 °C 95 % IP20
Ambient conditions         Ambient temperature         • during operation         • during storage         Relative humidity / at 25 °C / during operation / maximum         Protection class IP         Design, dimensions and weights         Design	-20 +70 °C -40 +85 °C 95 % IP20
Ambient conditions         Ambient temperature         • during operation         • during storage         Relative humidity / at 25 °C / during operation /         maximum         Protection class IP         Design, dimensions and weights         Design         Depth	-20 +70 °C -40 +85 °C 95 % IP20 compact 127 mm
Ambient conditions         Ambient temperature         • during operation         • during storage         Relative humidity / at 25 °C / during operation / maximum         Protection class IP         Design, dimensions and weights         Design         Depth         Height	-20 +70 °C -40 +85 °C 95 % IP20 compact 127 mm 147 mm

<ul> <li>35 mm DIN rail mounting</li> </ul>	Yes	
<ul> <li>S7-300 rail mounting</li> </ul>	Yes	
<ul> <li>S7-1500 rail mounting</li> </ul>	Yes	
• wall mounting	Yes	
Product features, product functions, product compo	nents / general	
Product function		
DynDNS client	Yes	
• no-ip.com client	Yes	
Product functions / management, configuration, eng	ineering	
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		
Statistics Packet Size	No	
<ul> <li>Statistics packet type</li> </ul>	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		
<ul> <li>NAT (IP masquerading)</li> </ul>	Yes	
Port forwarding	Yes	
<ul> <li>NAT traversal</li> </ul>	Yes	

• 1:1 NAT	Yes
DNS cache	Yes
Product functions / Security Suitability for operation / Virtual Private Network	Yes
Firewall version	Statefull Inspection
Product function	
	Yes
Password protection	Yes
packet filter	No
Broadcast/Multicast/Unicast Limiter	
Product function	Na
broadcast blocking	
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	
<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 Network</li> </ul>	256 bit
<ul> <li>with IPsec 3DES / with Virtual Private Network</li> </ul>	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	Ver
• NTP	Yes
• SNTP	Yes
Standards, specifications, approvals	
Standard	
• for EMC	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2, EN 61000-6-4

<ul> <li>for hazardous zone</li> </ul>	EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X
<ul> <li>for emitted interference</li> </ul>	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-4
• for interference immunity	ETSI EN 301 489-1, ETSI EN 301 489-7, ETSI EN 301 489-24, EN 61000-6-2
Certificate of suitability	
• CE marking	Yes
<ul> <li>Railway application in accordance with EN 50121-3-2</li> </ul>	Yes
<ul> <li>Railway application in accordance with EN 50121-4</li> </ul>	Yes
<ul> <li>Railway application in accordance with EN 50155</li> </ul>	Yes; no coated printed circuit boards
<ul> <li>railway application in accordance with EN 61373</li> </ul>	Yes; cat. 1, cl.A and cl. B
• Fire protection in accordance with EN 45545-2	Yes
Further information / Internet-Links	
Internet-Link	
• to website: Selector for cables and connectors	http://www.siemens.com/snst
<ul> <li>to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	http://www.siemens.com/snst
<ul> <li>to website: Industrial communication</li> </ul>	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	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.siemens.com. (V3.4)

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