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Data sheet 6GK5875-0AA10-1AA2

product type designation	**M875 UMTS**



********** spare part ********* SCALANCE M875-0 UMTS router; for wireless IP communication from Ethernet- based automation devices via UMTS mobile radio HSDPA and HSUPA support security features: IPsec, firewall; for mobile applications with approvals for railway and motor vehicles; 1x digital input, 1x digital output; observe national approvals.

product brand name	SCALANCE
transfer rate	
transfer rate / for Industrial Ethernet	10, 100 Mbit/s
transfer rate	
● for GSM transmission	9600 bit/s
● for GPRS transmission / with downlink / maximum	85.6 kbit/s
● for GPRS transmission / with uplink / maximum	42.8 kbit/s
● with eGPRS transmission / with downlink / maximum	236.8 kbit/s
● with eGPRS transmission / with uplink / maximum	118 kbit/s
● with UMTS transmission / with downlink / maximum	14.4 Mbit/s
● with UMTS transmission / with uplink / maximum	5.76 Mbit/s
interfaces	
number of electrical connections	
● for internal network	2
● for external network	2
number of electrical connections	
● for power supply	1
type of electrical connection	
● for internal network	RJ45 port (10/100 Mbit/s, TP, autocrossover)
● for external antenna(s)	SMA antenna socket (50 ohms)
● for power supply	Terminal strip
WAN connection	
type of wireless network / is supported	UMTS, GSM
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
supply voltage, current consumption, power loss	
supply voltage / rated value	12 ... 30
consumed current	
● at DC / at 24 V / typical	0.45 A
power loss [W]	
● typical	4 W
ambient conditions	
ambient temperature	
● during operation	-40 ... +75 °C
● during storage	-40 ... +85 °C
relative humidity / at 25 °C / during operation / maximum	95 %
protection class IP	IP20

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design, dimensions and weights	
design	compact
depth	114 mm
width	45 mm
net weight	280 g
fastening method	
● 35 mm DIN-rail mounting	Yes
● S7-300 rail mounting	No
● S7-1500 rail mounting	No
● wall mounting	No
product features, product functions, product components / general	
product function	
● DynDNS client	Yes
product functions / management, configuration, engineering	
product function	
● CLI	No
● web-based management	Yes
● MIB support	No
● TRAPs via email	No
protocol / is supported	
● Telnet	No
● HTTP	No
● HTTPS	Yes
type of configuration	Web-based management
product functions / diagnostics	
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
number of possible connections / with VPN connection	10
type of authentication / with Virtual Private Network / PSK	Yes
protocol / is supported	
● IPsec tunnel and transport mode	Yes
key length	
● with IPsec DES / with Virtual Private Network	56 bit

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● 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
IETF profile / with Virtual Private Network / X.509v3 certificate	Yes
product functions / time	
protocol / is supported	
● NTP	Yes
standards, specifications, approvals	
standard	
● for safety / from CSA and UL	yes
● for emitted interference	EN 55022 Class A
● for interference immunity	EN 61000-6-2
certificate of suitability	EN 61000-6-2
● CE marking	Yes
● E1 approval	No
● E1 approval	No
● railway application in accordance with EN 50121-3-2	Yes
● railway application in accordance with EN 50155	Yes; no coated printed circuit boards
● railway application in accordance with EN 61373	Yes; cat. 1, cl. B
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Mobile radio national approval	www.siemens.de/mobilfunkzulassungen
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://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 cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval			Radio Equipment Type Approval Certificate
CE EG-Konf.	EAC	China RoHS	Miscellaneous

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