

product type designation



RM1224 LTE(4G) NAM

RUGGEDCOM RM1224-NAM 4G ROUTER For wireless IP-communication from Ethernet based devices via LTE(4G)- mobile radio, optimized for use in North America, VPN, firewall, NAT 4-port switch 2x SMA antenna Connectors, MIMO technology 1xdig. input, 1xdig. output Please note national approvals!

Technical Product Detail Page

<https://i.siemens.com/1P6GK6108-4AM00-2DA2>

transfer rate

transfer rate / for Industrial Ethernet	10, 100 Mbit/s
transfer rate	
<ul style="list-style-type: none"> for GPRS transmission / with downlink / maximum 	85.6 kbit/s
<ul style="list-style-type: none"> for GPRS transmission / with uplink / maximum 	85.6 kbit/s
<ul style="list-style-type: none"> with eGPRS transmission / with downlink / maximum 	236.8 kbit/s
<ul style="list-style-type: none"> with eGPRS transmission / with uplink / maximum 	236.8 kbit/s
<ul style="list-style-type: none"> with UMTS transmission / with downlink / maximum 	14.4 Mbit/s
<ul style="list-style-type: none"> with UMTS transmission / with uplink / maximum 	5.76 Mbit/s
<ul style="list-style-type: none"> for LTE transmission / with downlink / maximum 	100 Mbit/s
<ul style="list-style-type: none"> for LTE transmission / with uplink / maximum 	50 Mbit/s

interfaces

number of electrical connections	
<ul style="list-style-type: none"> for internal network 	4
<ul style="list-style-type: none"> for external network 	2
number of electrical connections	
<ul style="list-style-type: none"> for power supply 	2
type of electrical connection	
<ul style="list-style-type: none"> for internal network 	RJ45 port (10/100 Mbit/s, TP, autocrossover)
<ul style="list-style-type: none"> for external network 	SMA antenna socket (50 ohms)
<ul style="list-style-type: none"> for power supply 	Terminal strip

WAN connection

type of wireless network / is supported	LTE, 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	850 MHz, AWS-1 (1700/2100) MHz, 1900 MHz
operating frequency / for LTE transmission	700 MHz, 850 MHz, AWS-1 (1700/2100) MHz, 1900 MHz

supply voltage, current consumption, power loss

supply voltage / rated value	10.8 ... 28.8
consumed current	
<ul style="list-style-type: none"> at rated supply voltage / maximum 	330 mA
power loss [W]	
<ul style="list-style-type: none"> maximum 	8 W
supply voltage / 1 / rated value	24 V

ambient conditions

ambient temperature	
<ul style="list-style-type: none"> during operation 	-40 ... +75 °C

• during storage	-40 ... +85 °C
relative humidity / at 25 °C / during operation / maximum	95 %
protection class IP	IP20
design, dimensions and weights	
design	compact
depth	127 mm
height	147 mm
width	35 mm
fastening method	
• 35 mm DIN-rail mounting	Yes
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
• wall mounting	Yes
product features, product functions, product components / general	
product function	
• DynDNS client	Yes
• no-ip.com client	Yes
product functions / management, configuration, engineering	
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 function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
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

<ul style="list-style-type: none"> • broadcast/multicast/unicast limiter 	No
product function	
<ul style="list-style-type: none"> • broadcast blocking • with VPN connection 	No IPsec, OpenVPN (as Client for SINEMA RC)
number of possible connections / with VPN connection	20
type of authentication / with Virtual Private Network / PSK	Yes
protocol / is supported	
<ul style="list-style-type: none"> • IPsec tunnel and transport mode 	Yes
key length	
<ul style="list-style-type: none"> • 1 / with IPsec AES / with Virtual Private Network • 2 / with IPsec AES / with Virtual Private Network • 3 / with IPsec AES / with Virtual Private Network • with IPsec 3DES / with Virtual Private Network 	128 bit 192 bit 256 bit 168 bit
type of Internet key exchange / with Virtual Private Network	
<ul style="list-style-type: none"> • main mode • quick mode 	Yes 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	
<ul style="list-style-type: none"> • NTP • SNTP 	Yes Yes
standards, specifications, approvals	
standard	
<ul style="list-style-type: none"> • for FM • for hazardous zone • for safety / from CSA and UL 	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 E115352 Vol. X2
certificate of suitability	
<ul style="list-style-type: none"> • CE marking • CCC approval 	Yes Yes; GB3836.1, GB3836.8, Ex nA IIC T4 Gc
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> • total • during manufacturing • during operation • after end of life 	630.27 kg 82.01 kg 547.91 kg 0.35 kg
further information / internet links	
internet link	
<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors • to website: Mobile radio national approval • to website: Industrial communication • to website: Siemens RUGGEDCOM • to web page: SiePortal • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support 	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/mobile-approvals https://www.siemens.com/simatic-net https://www.siemens.com/ruggedcom https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax 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	For use in hazardous locations	Radio Equipment Type Approval Certificate
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[Manufacturer Declaration](#)



[CCC-Ex](#)

[Miscellaneous](#)

other	Environment	Industrial Communication
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[inspection certificate](#)



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