

RUTM59 Operation Description

RUTM59 is a single modem 5G Router with Dual-SIM, GNSS, a powerful MediaTek MT7621A, Dual-Core, 880 MHz CPU and USB interface. Also, this device is equipped with 5 x 10/100/1000 Mbps Ethernet ports (4 x LAN and 1 x WAN ports).

5G Router uses Quectel RG520N-NA 5G Sub-6 GHz LGA module. This mobile module can operate in eighteen 5G NR SA and NSA bands. Also, the device supports fourteen LTE-FDD bands and five LTE-TDD bands. Data transmission speeds in 5G SA Sub-6 GHz are 2.4 Gbps (DL)/900 Mbps (UL), in 5G NSA Sub-6 GHz – 3.4 Gbps (DL)/550 Mbps (UL), LTE – 1.6 Gbps (DL)/200 Mbps (UL).

RUTM59 is powered by AC/DC adapter in the voltage range between 9 and 50 VDC. It has five external antennas with SMA connectors: 4 x SMA for mobile, and 1 x SMA for GNSS connectivity. The router has an external reset switch that is used for “reset” and “reset to factory defaults” purposes.

For more details, see the specifications list below.

MOBILE

- 5G Sub-6GHz SA/NSA 2.1/3.3Gbps DL (4x4 MIMO), 900/600 Mbps UL (2x2);
- 4G (LTE) – LTE Cat 20 2.0Gbps DL, 200Mbps UL
- 3G – 42 Mbps DL, 5.76Mbps UL
- 5G NR NSA: n2, n5, n7, n12, n13, n14, n25, n26, n29, n30, n38, n41, n48, n66, n70, n71, n77, n78
- 5G NR SA: n2, n5, n7, n12, n13, n14, n25, n26, n29, n30, n38, n41, n48, n66, n70, n71, n77, n78
- 5G DL 4 x 4 MIMO: n2, n5, n7, n12, n13*, n14, n25, n26*, n29, n30, n38, n41, n48, n66, n70, n71, n77, n78
- LTE-FDD: B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B66/B71
- LTE-TDD: B38/B41/B42/B43/B48
- DL 4 x 4 MIMO: B2/B4/B5/B12/B13/B14/B17/B25/B26/B29/B30/B66/B41/B42/B43/B48/B71

ETHERNET

- 1 x WAN port (can be configured as LAN) 10/100/1000 Mbps, compliance with IEEE 802.3, 802.3u, 802.3az standards, supports auto MDI/MDIX crossover
- 4 x RJ45 port, 10/100/1000 Mbps, supports auto MDI/MDIX crossover

SYSTEM CHARACTERISTICS

- CPU: MediaTek MT7621A, Dual-Core, 880 MHz
- RAM: 256MB DDR3
- FLASH storage: 16MB serial NOR flash, 256MB serial NAND flash

POWER

- Connector: 4-pin industrial DC power socket
- Input voltage range: 9 – 50 VDC, reverse polarity protection, surge protection >51 VDC 10us max

PHYSICAL INTERFACES (PORTS, LEDS, ANTENNAS, BUTTONS, SIM)

- 5 x RJ45 ports, 10/100/1000 Mbps
- LEDs: 3 x connection status LEDs, 3 x connection strength LEDs, 10 x Ethernet port status LEDs, 4 x WAN status LEDs, 1x Power LED
- SIM: 2 x SIM slots (Mini SIM - 2FF). 1.8 V/3 V
- Antenna: 4 x SMA for mobile, 1 x SMA for GNSS
- Power: 1 x 4 pin DC connector
- USB: 1 x USB A port for external devices
- Reset: Reboot/User default reset/Factory reset button
- Grounding: 1 x Grounding screw

PHYSICAL SPECIFICATION

- Housing: Aluminum housing
- Dimensions (W x H x D): 132 x 44.2 x 95.1 mm
- Weight: 523 g
- Mounting options: DIN rail (can be mounted on two sides), flat surface placement

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