

# RUTM50 Power Consumption

[Main Page](#) > [RUTM Routers](#) > [RUTM50](#) > [RUTM50 Manual](#) > **RUTM50 Power Consumption**

---

[RUTM50](#) power consumption values in different states of operation are represented in the tables below:

| Test type                         | Current (mA) | Power consumption (W) |
|-----------------------------------|--------------|-----------------------|
| Idle, no SIM card inserted (9 V)  | 371          | 3.34                  |
| Idle, no SIM card inserted (12 V) | 271          | 3.25                  |
| Idle, no SIM card inserted (24 V) | 139          | 3.34                  |

| Test type                                 | Current (mA) | Power consumption (W) |
|-------------------------------------------|--------------|-----------------------|
| Idle + mobile data on <sup>1</sup> (9 V)  | 388          | 3.49                  |
| Idle + mobile data on <sup>1</sup> (12 V) | 281          | 3.37                  |
| Idle + mobile data on <sup>1</sup> (24 V) | 143          | 3.43                  |

| Test type                                                                | Current (mA) | Power consumption (W) |
|--------------------------------------------------------------------------|--------------|-----------------------|
| Mobile data on <sup>1</sup> + 1 LAN device connected <sup>2</sup> (9 V)  | 445          | 4.01                  |
| Mobile data on <sup>1</sup> + 1 LAN device connected <sup>2</sup> (12 V) | 340          | 4.08                  |
| Mobile data on <sup>1</sup> + 1 LAN device connected <sup>2</sup> (24 V) | 166          | 3.98                  |

| Test type                                                                                                                                                                        | Current (mA) | Power consumption (W) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------|
| Max speed 5G (NSA) transmission + 5 LAN devices connected <sup>2</sup> + high CPU load <sup>3</sup> + data transfer via WiFi + GPS on + USB device connected <sup>4</sup> (9 V)  | 1262         | 11.36                 |
| Max speed 5G (NSA) transmission + 5 LAN devices connected <sup>2</sup> + high CPU load <sup>3</sup> + data transfer via WiFi + GPS on + USB device connected <sup>4</sup> (12 V) | 979          | 11.75                 |
| Max speed 5G (NSA) transmission + 5 LAN devices connected <sup>2</sup> + high CPU load <sup>3</sup> + data transfer via WiFi + GPS on + USB device connected <sup>4</sup> (24 V) | 456          | 10.94                 |

<sup>1</sup> - Only mobile data connection established with no additional traffic.

<sup>2</sup> - Data streams between RUTX50 and other connected LAN devices created using iPerf.

<sup>3</sup> - Load created using *md5sum* (calculation and verification of 128-bit MD5 hashes).

<sup>4</sup> - USB device with ~ 300 mA current draw.

Power consumption may differ due to mobile data transmission speed, testing environment and conditions.