1oT

Get started with eSIM

Teltonika RUT240

Compact but powerful 4G /LTE & WiFi cellular router with Ethernet and I/O. It's excellent for quick deployment in mission-critical IoT applications where advanced Networking, VPN and security features are needed.

The Teltonika RUT240 features a Quectel EC25-EC cellular module which supports needed SIM Toolkit(STK), and Bearer Independent Protocol(BIP) features for Remote SIM Provisioning (RSP).

While the RUT240 comes with a mini-SIM card(2FF) slot, it can easily be used with 1oT plastic eSIM, which enables you to Over The Air swap carrier profiles. 1oT eSIM improves the reliability of the Teltonika RUT240 router by making sure that you have future-proofed the connectivity.

You can configure the main router settings in the user interface, the cellular modules are controlled via AT-commands, and you will need to have access to the AT-command terminal.

Teltonika has implemented _gsmctl commands_ which relay AT-commands to the EC25-EC module via SSH.

◢ SSH

You can SSH using PuTTY on Windows or Terminal on Linux and Mac.

- # ssh root@192.168.1.1

If you have not changed it yet, then the default login information is username: root; password: admin01. We do recommend you to change the default password!

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◢ AT-commands

We will need to apply the AT-commands according to Quectel specification.

Before we mentioned that STK needs to be supported, but on Quectel modules for automatic STK responses, you will need to make sure that QSTK is set to 0:

- # gsmctl -A AT+QSTK=0

The second AT-command is for enabling BIP. Pay attention to the apostrophes as they are essential for the cellular module to interpret the command correctly.

- # gsmctl -A 'AT+QCFG="bip/auth",1'

```
BusyBox v1.30.1 () built-in shell (ash)

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[root@Teltonika-RUT240:~# gsmctl -A AT+QSTK=0
OK
[root@Teltonika-RUT240:~# gsmctl -A AT+QSTK?
+QSTK: 0,0,300
[root@Teltonika-RUT240:~# gsmctl -A 'AT+QCFG="bip/auth",1'
OK
[root@Teltonika-RUT240:~#
```

After having set up these AT-commands, you are good to go with 1oT eSIM and Teltonika RUT240.

For any further technical inquiries, you can contact 1oT at hacking[at]1ot.mobi.

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