

Release note ROCK

Release note – Firmware version 1.3.2

Syscom Instruments – 14.11.2024

The following improvement has been done compared to previous version:

- Add a distinction between the SARA-R41x and SARA-R42x families.
- Modify band selection for SARA-R412: enable band 28 for CAT-M1 and NB-IOT.

Release note – Firmware version 1.3.1

Syscom Instruments – 04.12.2023

The following improvement has been done compared to previous version:

- Add support of new modem.
- Fix possible corrupted flash after upgrading the firmware by USB.
- Fix wrong vbat/vref reading when USB is connected.
- Modify USB CLI terminal behavior to get close to a standard console (echo received characters, \r to mark the end of a command).
- Modify USB serial, product and manufacturer string descriptors. By now, the serial is the device UID and “mr4k” was replaced by “Rock”.
- Fix wrong behavior when modifying `linea_enabled` setting with `acq linea_enabled` command. The new setting was not taking into account.

Release note – Firmware version 1.3.0

Syscom Instruments – 08.03.2023

The following improvement has been done compared to previous version:

- Improve handling USB plug-in/plug-out.
- Add IMEI (International Mobile Equipment Identity) info when generating a LOG file.
- Improve modem management.
- Support of new cellular modem.
- Improve background file management.

Release note – Firmware version 1.2.7

Syscom Instruments – 12.01.2023

The following improvement has been done compared to previous version:

- Fix FRAM drain process: background files are moved correctly to the eMMC without gaps

Release note – Firmware version 1.2.6

Syscom Instruments – 19.12.2022

The following improvement has been done compared to previous version:

- Support of PCB V4
- Improve the SNTP sync: implement a try loop, sync time with one request

Release note – Firmware version 1.2.5

Syscom Instruments – 10.08.2021

The following improvement has been done compared to previous version:

- Fix a measuring timeout leading to a 0V battery voltage reading.

Release note – Firmware version 1.2.4

Syscom Instruments – 16.04.2021

The following improvement has been done compared to previous version:

- Fix an unwanted situation that could occur when the ROCK is connected to a computer in a low space FRAM partition context only.

Release note – Firmware version 1.2.3

Syscom Instruments – 13.04.2021

The following improvements have been done compared to previous version:

- Delay the background restoration process when there is not enough space in the filesystem to avoid a deadlock loop at boot.
- Improve the modem power-off management due to watchdog or when the power button is hold more than 15s to avoid modem failure.
- Stop the SCS sync if internal battery voltage is less than 3 volts.

- Update the power button timings for firmware upgrade (7s instead of 10s) and for LOG file (11s instead of 20s).
- Increase the number of attempts with longer period when trying to read the modem's PDP address.

Release note – Firmware version 1.2.2

Syscom Instruments – 05.10.2020

The following improvement has been done compared to previous version:

- Improve gsm communication.

Release note – Firmware version 1.2.1

Syscom Instruments – 25.08.2020

The following improvement has been done compared to previous version:

- Improve gsm communication.

Release note – Firmware version 1.2.0

Syscom Instruments – 29.04.2020

The following new features have been added compared to previous version:

- Addition of 4kHz sampling rate in "Acquisition" page.
- Addition of the "Trigger increment" mode.
- Increase the LED status color intensity to indicate the battery is charging.
- Addition of the move of the background recordings into eMMC to avoid losing the background recording.
- Addition of a new indicator to give the remaining battery capacity in percentage and display it in the SCS.
- Addition of an automatic sync request after a certain time if there was a communication error.

The following improvement has been done compared to previous version:

- Improve modem service to avoid problems in reconnection.
- Improve the retrieving of radio signal quality for the stats.
- Improve the USB port connection to avoid stack failure that caused the commands through USB to stop working and USB unplug failures.

- Improve the erroneous validity of pre-event recording.
- Improve event recording during SCS synchronization.
- Improve the connection speed to the internet network.
- Improve speed to send the recording files to the SCS.
- Improve the behaviour in case of weak cell phone signal zone positioning.
- Improve the time service to use the nearest NTP server based on the device position.

Release note – Firmware version 1.1.4

Syscom Instruments – 17.02.2020

The following improvement has been done compared to previous version:

- Improve modem connection to a GSM network.

Release note – Firmware version 1.1.3

Syscom Instruments – 05.02.2020

The following improvement has been done compared to previous version:

- Improve SIM management to avoid the triggering of the message “SIM is PUK locked”.

Release note – Firmware version 1.1.2

Syscom Instruments – 05.02.2020

The following improvement has been done compared to previous version:

- Support the new firmware modem
- Minor improvement in the task management to avoid an io error.

Release note – Firmware version 1.1.1

Syscom Instruments – 05.11.2019

The following improvement have been done compared to previous version:

- Improve recording id overflow to avoid the id filename looped back to 0 resulting in background failure after long term monitoring

Release note – Firmware version 1.1.0

Syscom Instruments – 17.06.2019

The following new features have been added compared to previous version:

- Addition of SBR-A background mode (Dutch standard 2017);
- Addition of an alarm on the background recording based on SBR-A and VSUM level;
- Data compression to reduce the volume of data to be transferred to the SCS;
- New variables in the user configuration controlling the maximum length of a recording;
- New status information transmitted to the SCS, in particular free available space and mobile signal strength;
- Capability to receive orders from the SCS.

The following improvements have been done compared to previous version:

- Improved shutdown/restart at the end of the firmware upgrade or when the ROCK is switched off with the button;
- Improved connection stability when using USB cable to connect the ROCK to a computer;
- Improved FFT calculation;
- Increased size of background recording file.

Release note – Firmware version 1.0.2

Syscom Instruments – 08.04.2019

The following improvement has been done compared to previous version:

- Power-off process of the modem

Release note – Firmware version 1.0.1

Syscom Instruments – 25.03.2019

The following new feature has been added compared to previous version:

- In case of a long event, different files with maximum duration of 60 seconds are generated;

The following improvements have been done compared to previous version:

- Better accuracy in the trigger time for event recording;
- Improvement with the 2G fall-back;
- Improvements with the USB communication.

Release note – Firmware version 1.0.0

Syscom Instruments – 05.03.2019

First firmware release.

For more information, please contact support@syscom-instruments.com