

Information note

Topic SARA-G450-01C Initial Production
UBX-20012005

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1 Affected products

Product name	Order code	Type number	Firmware	Remarks
SARA-G450	SARA-G450-01C	SARA-G450-01C-00	Modem: 09.02 Application: A04.22	

2 Type of change

- Hardware modification
- Firmware update
- Documentation update
- Others

3 Description of change

Release to initial production of the SARA-G450-01C module.

Restrictions compared to specifications in Annex A.

4 Schedule

This information is effective as of 27th May, 2020.

5 Customer impact and recommended action

ES modules can be updated to this IP firmware.

6 Reference documents

- [1] SARA-G450 data sheet, [UBX-18006165](#)
- [2] u-blox AT commands manual, [UBX-13002752](#)
- [3] SARA-G450 system integration manual, [UBX-18046432](#)

Annex

A Restrictions compared to specifications

A.1 Hardware

Uploading 01C FW on SARA-G450-00C HW will result in limitations on the usage of the I2C interface.

A.2 Firmware

A.2.1 Changes and issues fixed

- [u-blox ID 01-47] The +UULOC URC reports a wrong position when GNSS and CellLocate® are not available.
- [u-blox ID 01-50] The +UULOC URC should report a valid GNSS position only if UBX-NAV-PVT 'gnssFixOK'=1.
- [u-blox ID 01-59] AssistNow Offline request does not replace expired aiding data.
- [u-blox ID 01-68] The ATH command returns NO CARRIER instead of the OK final result code.
- [u-blox ID 01-102] Unexpected tone is generated after ATH on a mobile originated call.
- [u-blox ID 01-104] The audio interface is blocked after triggering a call waiting event.
- [u-blox ID 01-108] When a GNSS fix is not available the +UULOC URC does not provide a meaningful result.
- [u-blox ID 01-109] The auto-answering (S0 AT command) can be set just if the module is network registered.

A.2.2 Known issues and limitations

- [u-blox ID 00-32] The last four parameters of the +CIND read command provide inconsistent results.
- [u-blox ID 00-59] Data loss might occur during transfer of files greater than ~100 kB via direct link mode and low UART data rate (9,600 b/s).
- [u-blox ID 01-14] The DUT returns the OK final result code starting the multiplexer from the AUX UART interface.
- [u-blox ID 01-15] The +CMUX read command through the AUX UART interface produces the same answer whether the multiplexer is active or not.
- [u-blox ID 01-18] The +UULOCGNSS <psv_mode> parameter does not set “low power mode” in UBX-CFG-RXM string sent to the GNSS. Workaround: use +UGUBX AT command instead.
- [u-blox ID 01-32] The local aiding does not collect data from the GNSS and send to the GNSS all available aiding data.
- [u-blox ID 01-82] User busy tone is not played on the DUT and call waiting tone is not compliant to 3GPP specifications.
- [u-blox ID 01-130] MUX GNSS tunneling port may double some messages.
- [u-blox ID 01-139] If not set, the +CLVL default value is 12, but answer to the read command is 6. Workaround: always set the desired value.
- [u-blox ID 01-143] The <level> parameter of +CLVL AT command changes after using the +UPLAYFILE AT command. Workaround: after using +UPLAYFILE, always set desired <level> parameter for +CLVL.