

Product change note

Topic SARA-G450-00C firmware change
UBX-19032762
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1 Affected products

Product Name	Order Code	Type No (Old)	Type No (New)
SARA-G450	SARA-G450-00C	SARA-G450-00C-00	SARA-G450-00C-01

2 Type of change

- Hardware modification
- Firmware update
- Documentation update
- Others

3 Description of change

A new firmware version has been released.

The modem version will remain unchanged while the application version will change as indicated in the table below:

Old type number	Current firmware version	New type number	New firmware version
SARA-G450-00C-00	Modem: 09.02 Application: A02.01	SARA-G450-00C-01	Modem: 09.02 Application: A03.15

The firmware version can be polled from the module by sending an ATI9 command. See u-blox AT commands manual [\[1\]](#) for details.

The firmware is fully tested and has passed all the release tests in u-blox.

See Appendix A for detailed description of the changes

4 Schedule

Samples	Available in September
Estimated first shipment date ¹	October 2019

¹ The estimated first shipment date is the forecasted date that a customer may expect to receive changed product with the new type number. This is determined by the estimated date of inventory depletion on the PCN issue date. This may be affected by fluctuations in supply and demand. Consequently, although customers should be prepared to receive changed product on this date, u-blox will continue to ship pre-changed product until a time in which inventory has been depleted. This may result in pre-changed product being shipped to customers after this forecasted date.

5 Customer impact and recommended action

u-blox has taken utmost care to ensure full backward compatibility to the previous versions. The applied change is not relevant for approvals and certifications. However, a system check before deployment in production is recommended.

6 Reference documents

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

A Description of changes

A.1 HW

No changes.

A.2 Firmware

A.2.1 Improvements

The following issues have been resolved in the new firmware version:

u-blox tracking ID	Description / comment
27	Even if +CIEV and +CIND URCs are enabled by default, the information text response to the +CMER read command provides a different indication
34	If &S1, the DSR line does not switch from ON (low) to OFF (high) state when expected
35	If &C0, the DCD line is always in OFF (high) state; it should be always in ON (low) state
36	If &C1, the DCD line is always in OFF (high) state; it should change in accordance with the carrier detect status
37	If AT+UPSV=2 is set and then AT+UPSV=0 is set, the +UPSV read command answers 0, but if the RTS line goes OFF, the module enters the idle mode as +UPSV: 2 (but wake up via data reception is not enabled)
38	The GPIO settings are not stored in the NVM
40	If the <mt> parameter of +CNMI AT command is set to 2, then during a new SMS reception the SMSes are permanently stored in the memory
41	The +CIEV URC has a different behavior compared to other u-blox 2G products. In fact, the name of the parameter of +CIND is shown instead of the relative number
48	Unexpected quotation marks in the response of +CCID AT command
55	When registered in roaming, the +CGATT read command answers with +CGATT: 5 instead of +CGATT: 1
58	When &K command is issued, the response is not always a "clean" OK final result code
60	When the host server closes the connection, the module closes the relative socket and buffer is cleared, losing data not yet read
62	When a new phonebook item is written, the <text> field cannot be read even if it is used
63	It is not possible to list files by means of the +ULSTFILE AT command over the MUX interface
64	It is not possible to disable greeting text with AT+CSGT=0
65	Over the MUX interface, some URCs do not appear on all the ports or do not even appear at all
69	In the response to AT+COPS=5, "BSIC" is wrongly written "BSCI"
70	"0x0D 0x0A" missing before "CONNECT" when retrieving a file from a FTP server using Direct Link mode
71	When opening MUX, the module does not answer to SABM frame on DLCIO
73	Issuing +CMGD command, if <flag> is different from 0, the <index> parameter is not ignored, as it should be
74	Wrong error result code is given when issuing +CMGR command with <index>=0
75	With VSEL pin floating, during power save mode V_INT value switches cyclically between 3.0 V and 2.0 V

u-blox tracking ID	Description / comment
76	Issuing +USOCO command, if the connection fails, the error result code is missing
77	When the automatic time zone update is enabled, only Time Zone is updated instead of entire local time of the module
79	“IRA” characters set is not supported for SMSes
80	There are garbage characters in the unstructured supplementary service data (USSD) response
91	If the module is in binary mode on one socket and data is received on another socket, the module exits binary mode
92	If the module is in direct link mode on one socket and data is received on another socket, the module exits direct link mode
93	If the module is in binary mode on a socket and data is received on same socket, the module sends data on RXD (as in direct link mode)
97	URCs can appear after issuing a command and before the final result code
98	If power saving is enabled, there are issues with data transfer
104	There is an extra ‘SPACE’ character sent out after the prompt ‘@’ by the module when using +USOWR or +USOST AT commands in binary mode
105	The module does not reply to +UPSV AT command in a specific configuration
113	Static DNS1 and DNS2 can be set with +UPSD <param_tag>=4 and <param_tag>=5 but are not considered
115	+CGREG AT command is dependent from SIM PIN

A.2.2 Known issues

u-blox tracking ID	Description / comment
32	The last four parameters of the +CIND read command provide inconsistent results
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).
107	Custom request headers are not included in HTTP GET requests
110	The FTP server name set is ignored and is not mutually exclusive with the FTP server IP address
111	SMSes are stored into “SM” with a wrong index and can’t be read nor deleted when “MT” is set as preferred message storage
112	+CREG and +CGREG <stat> value is not consistent while the module is searching for a network to register to