Product change note

Topic	**SARA-N310-00X product change notification 2** UBX-22003602　　　C1-Public
Author	Samuele Falcomer
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1 Affected products

Product name	Ordering code	Type number (old)	Firmware (old)	Type number (new)	Firmware (new)
SARA-N310	SARA-N310-00X	SARA-N310-00X-01	18.13, A01.02	SARA-N310-00X-02	18.13, A01.03

2 Type

☐ Product status change	☒ Documentation update
☐ Hardware/component change	☐ Certification information
☒ Firmware/software update	☐ Security advisory
☐ Label change	☐ Other

3 Description

A new firmware release is available for the affected product and will be applied in production according to the schedule below. The changes made on the firmware are as follows:

- [u-blox ID 875] MQTT client does not accept "0" for the timeout.
- [u-blox ID 866] MQTT-SN client not working with DTLS.
- [u-blox ID 876] MQTT-SN does not output binary downlink messages with AT+UMQTTSNC=9.

4 Schedule

Product type number (new)	Sample availability date	Estimated first shipment date[1]
SARA-N310-00X-02	CW09	CW09

5 Customer impact and recommended action

- It is possible to upgrade SARA-N310-00X-01 (18.13, A01.02) units to this new PCN firmware version.
- It is recommended to use the new FW version (18.13, A01.03) on new devices that are starting certification activities.
- Backward compatibility between new type number and its predecessor is ensured.

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[1] The estimated first shipment date is the forecasted date when a customer may expect to receive the 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 the changed product on this date, u-blox will continue to ship the pre-changed product until the inventory has been depleted. This may result in the pre-changed product being shipped to customers after this forecasted date.

6 Firmware update

- SARA-N310-00X-01 (18.13, A01.02) units can be updated to this PCN firmware version by means of EasyFlash V12.10, FOAT, FOTA or uFOTA.
- The FOAT upgrade process uses the same files of the FOTA procedure.
- uFOTA process is automatically handled once a uFOTA campaign has been launched by u-blox.

6.1 Firmware update packages and md5 signature

Product / delivery	Filename	md5sum
EasyFlash	SARA-N310-00X-02_18.13_A01.03.dof	03aa0046b7e803f0292f3ae67428d87e
FOTA A01.02 to A01.03 uFOTA ID: 1405	SARA-N310-00X-01_FW18.13_A01.02- SARA-N310-00X-02_FW18.13_A01.03.pack	ec0f7fee9ecf2e2215125bd2d55691eb
FOTA A01.03 to test uFOTA ID: 1406	SARA-N310-00X-02_18.13_A01.03-SARA- N310-00X-02_18.13_A01.03_FOTA.pack	63b0a03e0da73e70701d7bce1c0707a1
FOTA test to A01.03 uFOTA ID: 1407	SARA-N310-00X-02_18.13_A01.03_FOTA- SARA-N310-00X-02_18.13_A01.03.pack	3eb80f49edd15d3d3e1134ca199cccfa

7 Tools

- m-center v02.05.00 – Download from the u-blox.com website via this page: m-center
- EasyFlash V12.10– Download from the u-blox.com website via this link: EasyFlash V12.10

8 Related documentation

[1] SARA-N2 / SARA-N3 series AT commands manual, UBX-16014887
[2] SARA-N3 series data sheet, UBX-18066692
[3] SARA-N2 / SARA-N3 series system integration manual UBX-17005143
[4] SARA-N3 series application development guide, UBX-19026709
[5] EVK-N3 user guide, UBX-19004195
[6] SARA-N310-00X application version change, UBX-21017614

Appendix

A Known bugs and limitations

- [u-blox id 736] +UJAD AT command: the registration status may not get updated after a jamming is detected.
- [u-blox id 798] SMS: UTF-16 encoding is not supported.
- [u-blox id 795] SMS: special 7-bit characters are not properly decoded at reception.
- [u-blox id 791] +CPIN AT command: after providing PIN1, the module does not perform attach automatically. A manual attach must be triggered after providing PIN1.
- [u-blox id 733] The +CRSM AT command does not return correct values.
- [u-blox id 504] uFOTA: file download progress cannot be tracked. Notification of success or failure is given at the end of FOTA package download process.
- [u-blox id 845] Enabling AT command echo may result in URC being merged with echo string.
- [u-blox id 854] The +CIPCA AT command has no factory-programmed value and must be set.
- [u-blox ID 817] Non-IP PDP context with PAP/CHAP authentication is not supported.
- [u-blox ID 878] MQTT-SN search gateway is not supported.