Product change note

Topic	**SARA-N310-00X product change notification**
	UBX-21039338 C1-Public
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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-00	18.13, A01.01	SARA-N310-00X-01	18.13, A01.02

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 843] Fixed +UBANDSEL AT command setting that may prevent proper registration
- [u-blox ID 842] Improved CoAP block-wise transfer of large files
- [u-blox ID 841] Added support of QoS: -1 on MQTT-SN
- [u-blox ID 840] Fixed short topic names being reversed in MQTT-SN
- [u-blox ID 839] Fixed incorrect handling of URCs enabled by AT+UMQTTSNC=9 command
- [u-blox ID 838] The AT+UMQTTSN=8,0 command is now properly supported
- [u-blox ID 836] Fixed possible cases of long re-scanning attempts while using roaming SIMs
- [u-blox ID 825] Fixed limitation on MQTT hexadecimal mode message size
- [u-blox ID 824] Fixed wrong response indication provided by the +COPS read command
- [u-blox ID 814] Fixed the +CCLK AT command time zone two digits reporting

4 Schedule

Product type number (new)	Sample availability date	Estimated first shipment date[1]
SARA-N310-00X-01	2021 CW39	2021 CW39

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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.

5   Customer impact and recommended action

- It is possible to upgrade SARA-N310-00X-00 (18.13, A01.01 and 18.13, A01.00) units to the new PCN firmware version.
- It is recommended to use this PCN FW version on new devices starting certification activities.
- Backward compatibility between new type number and its predecessor is ensured.
- EVK units may be shipped with the 18.13, A01.01 FW version during the inventory depletion period. Customers should check the FW of the EVKs and as necessary upgrade it to the PCN FW version 18.13, A01.02.

6   Firmware update

- SARA-N310-00X-00 (18.13, A01.01 and 18.13, A01.00) 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.
- FOAT upgrade process requires multiple package installations and shall be completed entirely. Do not use intermediate versions:
  - To upgrade from 18.13, A01.01, use files following the sequence reported below:
    - "FOTA A01.01 to A01.02_C1" → "FOTA A01.02_C1 to A01.02_C2" → " FOTA A01.02_C2 to A01.02_C3" → "FOTA A01.02_C3 to A01.02"
  - To upgrade from 18.13, A01.00, use files following the sequence reported below:
    - " FOTA A01.00 to A01.02_C1" → "FOTA A01.02_C1 to A01.02_C2" → " FOTA A01.02_C2 to A01.02_C3" → "FOTA A01.02_C3 to A01.02"
- 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
SARA-N310		
FOTA A01.00 to A01.02_C1 uFOTA ID: 1248	SARA-N310-00X-00_FW18.13_A01.00-SARA-N310-00X-00_FW18.13_A01.02C1.pack	60f8eed570deb3d713d462698e9c4445
FOTA A01.01 to A01.02_C1 uFOTA ID:1249	SARA-N310-00X-00_FW18.13_A01.01-SARA-N310-00X-00_FW18.13_A01.02C1.pack	e2c125fb5aa7b811264eef472c6fbd89
FOTA A01.02_C1 to A01.02_C2 uFOTA ID:1250	SARA-N310-00X-00_FW18.13_A01.02C1-SARA-N310-00X-00_FW18.13_A01.02C2.pack	8069975a886e9653e2cbce8af1bda0b1
FOTA A01.02_C2 to A01.02_C3 uFOTA ID:1251	SARA-N310-00X-00_FW18.13_A01.02C2-SARA-N310-00X-00_FW18.13_A01.02C3.pack	aa62e32efdabbfbb5da4e80254c3116e
FOTA A01.02_C3 to A01.02 uFOTA ID:1252	SARA-N310-00X-00_FW18.13_A01.02C3-SARA-N310-00X-00_FW18.13_A01.02.pack	6c9ce242583bbe7f92262c685c40670a
EasyFlash	SARA-N310-00X-01_18.13_A01.02.dof	b90df9b00baed065d29a36f66fa26609
FOTA A01.02 to test uFOTA ID: 1253	SARA-N310-00X-01_18.13_A01.02-SARA-N310-00X-01_18.13_A01.02_FOTA.pack	152e31501b1c7481e2fc522555dc6230
FOTA test to A01.02 uFOTA ID: 1254	SARA-N310-00X-01_18.13_A01.02_FOTA-SARA-N310-00X-01_18.13_A01.02.pack	0ff9fb5c9af226fcb2e43772f6a6a9bf

7 Tools

- m-center v02.04.00 – 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 866] MQTT-SN: client with DTLS is not supported.
- [u-blox ID 817] Non-IP PDP context with PAP/CHAP authentication is not supported.