

## Product Change Notification

**Topic** TOBY-R200, -R202, LARA-R202,-R203,-R220,-R280,-R211 Firmware Update  
UBX-18057549

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### 1 Affected Products

Product Name	Order Number	Type No (Old)	Type No (New)	Remarks
TOBY-R200	TOBY-R200-02B	TOBY-R200-02B-02	TOBY-R200-02B-03	
TOBY-R202	TOBY-R202-02B	TOBY-R202-02B-02	TOBY-R202-02B-03	
LARA-R202	LARA-R202-02B	LARA-R202-02B-01	LARA-R202-02B-02	
LARA-R203	LARA-R203-02B	LARA-R203-02B-01	LARA-R203-02B-02	
LARA-R220	LARA-R220-62B	LARA-R220-62B-01	LARA-R220-62B-02	
LARA-R280	LARA-R280-02B	LARA-R280-02B-02	LARA-R280-02B-03	
LARA-R211	LARA-R211-02B	LARA-R211-02B-01	LARA-R211-02B-02	

### 2 Type of Change

- Hardware modification
- Firmware update
- Documentation update
- Others

### 3 Description of Change

To strengthen the robustness and durability of the chip's internal power management unit, improved power-up sequence has been introduced. It provides an additional protection level for the chip's internal power management. The protection function is applied only during the power on cycle and for a very short time in order to protect the power management unit from effects of transient current.

For traceability reasons, a new type number will be assigned. These changes do not affect the module functionality or performance.

The firmware version can be identified according to the type number, as follows:

Old type number	Current firmware version	New type number	New firmware version
TOBY-R200-02B-02	Modem: 30.31 Application: A02.01	TOBY-R200-02B-03	Modem: 30.31 Application: A02.02
TOBY-R202-02B-02	Modem: 30.31 Application: A02.01	TOBY-R202-02B-03	Modem: 30.31 Application: A02.02
LARA-R202-02B-01	Modem: 30.42 Application: A01.01	LARA-R202-02B-02	Modem: 30.42 Application: A01.02
LARA-R203-02B-01	Modem: 30.39 Application: A01.02	LARA-R203-02B-02	Modem: 30.39 Application: A01.03
LARA-R220-62B-01	Modem: 30.44 Application: A01.04	LARA-R220-62B-02	Modem: 30.44 Application: A01.05
LARA-R280-02B-02	Modem: 30.43 Application: A01.03	LARA-R280-02B-03	Modem: 30.43 Application: A01.04
LARA-R211-02B-01	Modem: 30.49 Application: A01.01	LARA-R211-02B-02	Modem: 30.49 Application: A01.02

The modem and application version can be polled from the module by sending the AT+GMR and AT+I9 commands. See the u-blox cellular AT commands manual [1] for details. The firmware is fully tested and has passed all the release tests in u-blox.

## 4 Schedule

<b>Estimated first shipment date</b>	22-Feb-2019
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## 5 Customer Impact and Recommended Action

Products with the new type number are functionally and pin-to-pin compatible with their predecessors. Changes implemented in the new firmware are not relevant to certification, and certification grants already achieved remain valid.

Products with an old type number can be updated with the new firmware version.

## 6 Known bugs and limitation

See the Information Notes [6], [7], [8], [9].

## 7 Reference Documents

- [1] u-blox AT Commands Manual, u-blox document UBX-13002752
- [2] TOBY-R2 series System Integration Manual, u-blox document UBX-16010572
- [3] TOBY-R2 series Data Sheet, u-blox document UBX-16005785
- [4] LARA-R2 series System Integration Manual, u-blox document UBX-16010573
- [5] LARA-R2 series Data Sheet, u-blox document UBX-16005783
- [6] TOBY-R200-02B-00 / TOBY-R202-02B-00 Product Change Notification, u-blox document UBX-17048314
- [7] LARA-R202-02B IP Information Note, u-blox document UBX-17057959
- [8] LARA-R203-02B IP Information Note, u-blox document UBX-17048311
- [9] LARA-R280-02B IP Information Note, u-blox document UBX-17063950