

## PCN – Product Change Notification

<b>Topic:</b>	<b>TOBY-R200-02B / TOBY-R202-02B Firmware Release</b>
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### 1 Affected Products

Product Name	Order Number (unchanged)	Type No (Old)	Type No (New)	Remarks
TOBY-R200	TOBY-R200-02B	TOBY-R200-02B-00	TOBY-R200-02B-01	
TOBY-R202	TOBY-R202-02B	TOBY-R202-02B-00	TOBY-R202-02B-01	

### 2 Type of Change

- Hardware modification
- Firmware update
- Type number

### 3 Description of Change

As of the date indicated in the Schedule below, a new firmware release will be applied to the affected products in production.

The version of firmware may be identified according to the Type Number as follows:

Current Product Type No	Current Firmware version	New Product Type No	New Firmware version
TOBY-R200-02B-00	30.31 A01.01	TOBY-R200-02B-01	30.31 A02.00
TOBY-R202-02B-00	30.31 A01.01	TOBY-R202-02B-01	30.31 A02.00

For full details of changes contained in this new version, see Annex A.

### 4 Schedule

Samples:	
Estimated First Shipment Date <sup>1</sup> :	31-Oct-2017
Documentation (e.g. release note)	Available

<sup>1</sup> 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

Backward compatibility between new type number and its predecessor is ensured.

TOBY-R200-02B-01, TOBY-R202-02B-01 can be used instead of TOBY-R200-02B-00, TOBY-R202-02B-00.

PTCRB and FCC/ISED grants already achieved for TOBY-R200-02B-00 and TOBY-R202-02B-00 remain valid also for new product type number TOBY-R200-02B-01 and TOBY-R202-02B-01.

AT&T grant achieved for this new firmware version.

If customer product using TOBY-R200-02B-00, TOBY-R202-02B-00 has been already certified by AT&T there will be no need to perform new product re-certification for using TOBY-R200-02B-01 and TOBY-R202-02B-01. Only documentation work will be required.

## 6 Reference Documents

- [1] TOBY-R2 series Data Sheet, u-blox Document UBX-16005785-R09
- [2] u-blox AT Commands Manual, u-blox Document UBX-13002752-R54
- [3] TOBY-R2 series System Integration Manual, u-blox Document UBX-16010572-R07
- [4] TOBY-R200-02B, TOBY-R202-02B IP Information Note, u-blox Document UBX-17006265

## A Description of Changes

### A.1 Hardware

#### A.1.1 New features

No new features since the previous hardware version.

#### A.1.2 Changes and Bugs fixed

None.

#### A.1.3 Known Limitations

None.

### A.2 Firmware

#### A.2.1 New features

- CellLocate®, Hybrid Positioning and GNSS via modem supported.
- VoLTE on T-Mobile network is supported.

#### A.2.2 Changes and bugs fixed

- [u-blox ID 3168] UART lock up

#### A.2.3 Known limitations

- See TOBY-R200-02B, TOBY-R202-02B IP Information Note [4].
- [u-blox ids 3317-3319-3375] After using Supplementary Service (i.e. call forwarding activation, interrogation, etc) it is recommended to re-trigger IMS registration via AT+UIMSREG=0/1 cycle.
- [u-blox id 3399] After having created a 4-way VoLTE conference on AT&T network (+CHLD: 3), an error is returned although merging the calls was successful.
- [u-blox id 3342] It might be necessary to re-establish EPS data connectivity (e.g. via AT+CGACT) after a mobile terminated Detach Request received in LTE with IMS enabled.
- [u-blox id 3448] After a NW detach with detach cause 8 "EPS services and not EPS services not allowed, the <type> value in +CEER reports a wrong value "SM attach error".
- [u-blox id 3483] In T-Mobile network, it is necessary to re-trigger IMS registration via AT+UIMSREG=0/1 cycle after having established an internal PDP context.
- [u-blox id 3489] In AT&T network, if a MO VoLTE call fails during dialing, it is recommended to restart it.