

## PCN – Product Change Notification

<b>Topic:</b>	<b>NEO-M8T firmware change in production and hardware modification</b>
	UBX-16005636
<b>Author:</b>	amil
<b>Date:</b>	04-May-2016

We reserve all rights in this document and in the information contained therein. Reproduction, use or disclosure to third parties without express permission is strictly prohibited.

© 2016 u-blox ag.

### 1 Affected Products

Product Name	Order Number	Type No (Old)	Type No (New)	Remarks
NEO-M8T	NEO-M8T-0	NEO-M8T-0-01	NEO-M8T-0-10	

### 2 Type of Change

Hardware: new PCB technology, hardware design improvements  
 Firmware: new release  
 Others: labeling (type number and data code)

### 3 Description of Change

#### 3.1 Hardware

The module PCB technology has been updated with this version.

The capacitive load presented to the application circuit by pin 22 (back-up voltage supply input) will increase from approximately 100 nF to approximately 1 µF.

This version includes additional filtering on UART RX, UART TX, EXTINT0 and RESET\_N pins to reduce the effect of interference to a nearby GNSS antenna under very weak signal conditions.

#### 3.2 Firmware

From the dates indicated below a new firmware release and hardware changes will be applied to the Affected Products in production. The version of firmware may be identified according to the Type Number as follows:

Type No	Firmware version	Remarks
NEO-M8T-0-01	V2 TIMRAW1.02 (old)	
NEO-M8T-0-10	V3 TIM1.10 (new)	

For full details of firmware changes please see:

- [1] Release Note, FW3.01 Timing 1.10 (UBX-16004908)
- [2] GNSS-FW3.01 Release Notes (UBX-16000319)
- [3] NEO/LEA-M8T (FW3) Data Sheet (UBX-15025193)
- [4] the latest u-blox-8 / u-blox M8 Receiver Description (UBX-13003221)

This release introduces u-blox FW3 features including support for the Galileo constellation and improved BeiDou signal acquisition sensitivity.

## 4 Schedule

Samples	04 May 2016	Last Time Buy Date <sup>1</sup> :	N/A
Estimated First Shipment Date <sup>2</sup> :	07 September 2016	Last Ship Date <sup>1</sup> :	N/A
Documentation	04 May 2016	FW (if applicable)	1 March 2016

## 5 Customer Impact and Recommended Action

The new product is electrically identical with the old product and physically conformant with the old specification.

The new product firmware is expected to perform in a very similar way to the existing product in timing applications using the default configuration. However, u-blox recommends that the customer confirm compatible behavior in their application as soon as samples or firmware become available. Please refer to Release Note, FW3.01 Timing 1.10 (UBX-16004908) for details of the unique firmware identification string that can be used to identify this firmware release using message UBX-MON-VER. Note that a recent version of u-center or u-blox firmware update utility will be required to restore an upgraded product to its previous version of firmware.

For new designs u-blox recommends that any qualification process is completed using parts with the new firmware.

## 6 Reference Documents

- [1] Release Note, FW3.01 Timing 1.10 (UBX-16004908)
- [2] GNSS-FW3.01 Release Notes (UBX-16000319)
- [3] NEO/LEA-M8T (FW3) Data Sheet (UBX-15025193)
- [4] u-blox-8 / u-blox M8 Receiver Description (UBX-13003221)

<sup>1</sup> All orders for the old Type Number placed after the notification date are **non-cancelable** and **non-returnable (NCNR)**.

<sup>2</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.