

# PCN – Product Change Notification

<b>Topic:</b>	<b>NEO-M8L firmware change in production and hardware modification</b>
	UBX-16006756
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## 1 Affected Products

Product Name	Order Number	Type No (Old)	Type No (New)	Remarks
NEO-M8L	NEO-M8L-0	NEO-M8L-0-00	NEO-M8L-0-10	

## 2 Type of Change

Hardware: component value revision

Firmware: new release

Others: labelling (type number and data code), documentation

## 3 Description of Change

### 3.1 Hardware

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.

### 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:

Product Type No	Firmware version	Remarks
NEO-M8L-0-00 (old)	FW 2.01 ADR 3.11	
NEO-M8L-0-10 (new)	FW 3.01 ADR 4.00	Hardware modifications apply

For full details of firmware changes, please refer to the Reference Documents listed below. This release introduces u-blox FW3 features, including support for the Galileo constellation, a new real-time high navigation rate output, and aids to installation.

Early samples with the new firmware may use the old hardware design.

## 4 Schedule

Samples:	9 June 2016	Last Time Buy Date <sup>1</sup> :	N/A
Estimated First Shipment Date <sup>2</sup> :	12 Sept. 2016	Last Ship Date <sup>1</sup> :	N/A
Documentation	9 June 2016	FW (if applicable)	18 May 2016

## 5 Customer Impact and Recommended Action

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

The new product firmware is expected to function in a very similar way and offer generally better performance in existing applications using common configuration settings. However, u-blox recommends that the customer confirm compatible behaviour in their application as soon as samples or firmware become available.

Please refer to [2] GNSS-FW3.01 Confidential Release Notes (UBX-16000319) 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] GNSS-FW3.01 ADR4.00 Confidential Release Notes (UBX-16009437)
- [2] GNSS-FW3.01 Confidential Release Notes (UBX-16000319)
- [3] NEO-M8L (ADR4) Data-sheet (UBX-15028320)
- [4] u-blox-8 / u-blox M8 Confidential Receiver Description (UBX-13002887)
- [5] NEO-M8L Confidential Hardware Integration Manual (UBX-14005779)

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<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.