

## PCN - Product Change Notice (M10478-A2)

The M10478-A2 GPS module has an implemented engineering change due to an upgrade by the chip supplier. This change of release has no effect on any customer hardware design, and the update is fully backwards compatible with the previous version. No other hardware changes have been made to the module.

<b>Original Part Number:</b>	M10478-A2
<b>New Part Number</b>	M10478-A2-1
<b>Description of change:</b>	MediaTek chip MT3337 is updating to new release of the ROM code. New part identified as MT3337-E
<b>Change Effective by:</b>	October 2015

M10478-A2



### MediaTek Upgrade Description:

Update to ROM code with latest version. This update reallocates ROM space for new features to be introduced. This also caused the following to be removed from the feature list. The overall device performance and accuracy has been improved over the original version.

Removed features	Additional features
SBAS	EASY
Always Locate	PPS sync NMEA
LOCUS	

For descriptions of all the removed and additional features please see the next page for information.

## Description of Features:

A brief description of the removed and added features is shown below as a reference. Please see the datasheet for the detailed performance and full list of features available.

### Removed features:

#### **SBAS (WAAS + MSAS +EGNOS)**

SBAS is a satellite-based augmentation system, it is designed to provide additional corrections to the GPS receiver that may help improve accuracy and reduce clock drift.

#### **Always Locate**

Dynamic power saving mode using PMTK225 command. To track and standby according to pre-set commands from the host, but also adapts to adjust the on/off times.

#### **LOCUS**

LOCUS is an internal logging function that would store location data to the NVRAM of the ROM chip.

### Additional Features:

#### **EASY**

EASY works as embedded software which accelerates TTFF by predicting satellite navigation messages from received ephemeris. No additional computing interval for EASY function. It efficiently schedules and computes free time of every second after the GPS navigation solution. This provides up to 3-days of predicted EE will be stored to greatly improve TTFF after periods of standby.

#### **PPS sync NMEA**

#### **Performance increased areas**

MediaTek claim improved location accuracy. Also the TTFF times have been improved in low signal environments

### Part Number Change and Ordering:

From 1<sup>st</sup> November all new orders placed should use the new part number; M10478-A2-1

The M10478-A2-1 will be available to ship from 1<sup>st</sup> November 2015 onwards based on lead times.

This part is backward compatible so there is no need to replace or return any unused inventory.

### Product Markings:

The barcode label on the module will be changed as shown below to distinguish between the 2 versions:



In addition to this, all new shipments will have the following yellow sticker on the pizza box, carton and bag as a reminder



### Action:

Please update your order processing records and make everyone aware within your company that needs to know about this change.

The updated data sheet is available for download [www.antenova-m2m.com](http://www.antenova-m2m.com).

If you have any questions, then please contact your Antenova Sales Manager or email [sales@antenova-m2m.com](mailto:sales@antenova-m2m.com).