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May 25, 2016

To: All customers using the RXM-GPS-RM

Re: Product Change Notice – Feature Changes

Dear customer,

Linx Technologies is announcing a change in the operation of the RXM-GPS-RM GPS receiver module. Due to the end of life of the original chip, there are some feature changes. The list below outlines the changes in the module.

- The GLL and VTG messages are enabled by default. This may require some firmware changes in your external microcontroller to manage the additional messages.
- The ZDA message is added, but disabled by default.
- SBAS and DGPS support is removed. The position accuracy goes from 2.5m to 3.0m.
- Support for MediaTek's AlwaysLocate™ is removed. This was a built-in function to periodically wake the module for position fix, output the position and then go back to sleep. The module can still be placed into a sleep mode, but the sleep / wake cycle must be managed by an external microcontroller.
- MediaTek's EASY 3-day ephemeris prediction function is added. This enables a faster time-to-first-fix from a cold start of <15s if the module's location has not changed much.
- The module can now synchronize the NMEA data output with the 1PPS output. This enables a fixed interval between the rising edge of the 1PPS pulse and the NMEA messages that describe the position and time as of the 1PPS pulse. Two new commands are added to support this function.
- A command is added to enable active interference cancellation.
- Command 300 is removed from the documentation following Mediatek's recommendation to migrate to message 220 for setting the position fix interval. The command is still supported by the module, but may not be supported in future releases.
- For applications that use command 300 and query 400, the response (500) now includes two additional fields. For example, $PMTK500,1000,0,0,0,0*1A becomes $PMTK500,1000,0,0,0,0,0,0*1A in the new release.

We are committed to working closely with our customers during the transition to address any questions or concerns. Please do not hesitate to contact us if you have any questions regarding this important matter.

# Product Change Notice for RXM-GPS-RM

PCN #: LPCN-160525-1
Publish Date: May 25, 2016

## Type of Change

Feature changes

## Products Affected

RXM-GPS-RM

## Description of Change

Several feature changes are being implemented as a result of customer feedback, compatibility with future systems and component end-of-life.

## Reason for Change

Component end-of-life, product enhancement.

## Effect of Change

Form: No change

Fit: No change

Function:

| |
|---|
| The GLL and VTG messages are enabled by default. This may require some firmware changes in your external microcontroller to manage the additional messages. |
| The ZDA message is added, but disabled by default. |
| SBAS and DGPS support is removed. The position accuracy goes from 2.5m to 3.0m. |
| Support for MediaTek's AlwaysLocate™ is removed. This was a built-in function to periodically wake the module for position fix, output the position and then go back to sleep. The module can still be placed into a sleep mode, but the sleep / wake cycle must be managed by an external microcontroller. |
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Quality: No change

## Anticipated First Ship Date

1 September 2016 or when stock runs out, whichever comes first. Can be identified as follows: after date code 1612.

## Qualification Data

Qualification plan specifics are not for general release. Please contact Linx directly for additional information.

## Last Time Buy Date

No formal last time buy date is established.