

## PCN – Product Change Notification

<b>Topic:</b>	<b>LISA-U200-61S firmware change</b>
	UBX-13005435
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### 1 Affected Products

Product Name	Order Number	Type No (Old)	Type No (New)	Remarks
LISA-U200	LISA-U200-61S	LISA-U200-61S-00	LISA-U200-61S-01	

### 2 Type of Change

- Hardware modification  
 Firmware update  
 Others, \_\_\_\_\_

### 3 Description of Change

A new firmware version has been released to introduce a work-around to a problem detected by the customer Transtron (Japan). See description of the problem in 3.1 below. This work-around has been tested and verified by Transtron.

The new firmware number is 22.41. The firmware version can be polled from the module by sending an AT+GMR command. See AT commands manual [1] for details.

Module hardware remains unchanged.

Firmware 22.41 is the same as firmware 22.40\_ENG2002:

- The string of the firmware number in 22.40\_ENG2002 is “\_22.40\_ENG2002”, the string in 22.41 is “22.41”.
- Firmware 22.41 is released through the official software release process, meaning that it received a software-version string as required for officially released SW.

Firmware 22.41 is fully tested and passed all the release tests in u-blox.

#### 3.1 Root Cause

The root cause is explained in detail in the 8D report [5].

### 4 Schedule

Samples:	Available upon request
Estimated First Shipment Date:	January 20 <sup>th</sup> 2014
Estimated Transition Date:	January 20 <sup>th</sup> 2014
Documentation:	January 20 <sup>th</sup> 2014

### 5 Customer Impact and Recommended Action

Recommend actions: see Annex C.

## 6 Reference Documents

- [1]. u-blox AT Commands Manual Document UBX-13002752, Revision R21
- [2]. LISA-U2 series Data Sheet Document UBX-13001734, Revision R13
- [3]. LISA-U series System Integration Manual document UBX-13001118, Revision R17
- [4]. LISA-U200-61S Information Note Initial Production (UBX-TN-13019)
- [5]. 8D report for RMA 3398, u-blox document Q-8DW-13020

## A Description of changes

### A.1 New features and improvements

The new firmware is released to provide work-around for the problem: Corruption of File System. To prevent the corruption of the File System, file system activity should be blocked during power-off.

Description of the changes:

- Embedded GPS application (no FFS activity): Preventing embedded GPS software to write into the file-system during power-off [u-blox tracking number 15428]
- Autobauding: Bug fix in autobauding at power-on [u-blox tracking number 15407]. This bug could disturb the power-on sequence.

In addition, host application software should not use AT commands listed in Annex B.

## B Known limitations and bugs

1. See below (B.1 to B.5) for the list of all the AT commands which trigger (directly and indirectly) the writing in the file system. Please refer to u-blox AT commands manual for detailed specification of commands mentioned. Use this list as guideline of the AT commands which **must not be used** by the host application software in order to minimize the file system usage and limit the impact of file system cause on the critical scenario.
2. For other limitations: See [4].

### B.1 Short Messages Service

+CPMS Preferred Message Storage.

Recommended usage: AT+CPMS="SM","SM","SM"

This avoid the SMS store on the file system

### B.2 File System

All AT command declared in chapter 19 of AT commands manual must not be used.

### B.3 FTP

+UFTPC Triggers FTP actions.

Recommended usage: AT+UFTPC=<ftp\_command>[,<param1>[,<param2>[,<param3>]]]

Avoid the following configuration: <ftp\_command>=4 and <ftp\_command>=5

### B.4 HTTP

All AT command declared in chapter 25 of AT commands manual must not be used.

### B.5 GPS

All AT command declared in chapter 28 of AT commands manual must not be used.

## C Recommended action for Power ON/OFF

### power on

- After firmware update on the switch on, wait 30s for the SMS directory create. This is done only at the very first power on.
- send → AT+CPMS="SM","SM","SM" to set SMS storage to SIM card (and not file system)

### power off

send → AT+COPS=2 before +CPWROFF command (with proper timings according AT manual)