Release Notes

Topic :	**Firmware 7.03 DR 6R C0 2.02 for u-blox 6**
	UBX-13001201
Author :	ffel
Date :	11-04-2013

1 General Information

The u-blox 6 firmware version 7.03 DR 6R C0 2.02 is a flash firmware intended for LEA-6R modules. The firmware is a replacement for the u-blox 6 firmware version 7.03 DR 6R C0 2.00 providing several bug fixes. It is kept backwards compatible to it successor firmware. Version information is provided in the NMEA $GPTXT and UBX-MON-VER messages.

1.1 Released firmware image

Flash image for LEA-6R

File: `U6_EXT_FW703_ADR202_LEA6R_dffc778e43a7866fd3597ef2004e0560.bin`

ID String: `EXT CORE 7.03 (67496) Apr 9 2013 13:12:02`

Extension: `DR 6R C0 2.02`

Supports ROM: `7.03`

1.2 Released documentation

u-blox 6 Receiver Description including Protocol Specification, Docu. No. GPS.G6-SW-10018-F

1.3 Released software tools

u-center version 7.02 (including UBX.dll version 7.02) can be used. This version of u-center was already released for the firmware version 7.03 and is available on the u-blox website.

2 Constraints

2.1 Hardware limitations

The firmware will be able to run properly on LEA-6R hardware only.

2.2 Software limitations

The same basic feature set as used for u-blox 6 firmware version 7.03 DR 6R C0 2.00 is supported, but **AssistNow™ Autonomous** has been disabled for this version**.**

3 Performance

The following improvements in terms of positioning accuracy and reliability have been realized:

1. Improvement of Dead Reckoning (DR) performance for large wheel tick quantization (>2cm/tick)
2. Output of heading of vehicle (NMEA-Standard-THS: *True Heading and Status*)
3. Improved static hold behavior in difficult environment
4. Avoidance of position jumps after receiver restart
5. Handling of spurious wheel ticks during receiver shutdown to ensure continuous DR/Fusion after restart
6. Increase of available memory to handle higher input load on communication interface
7. Ferry mode is not triggered in difficult environment
8. No flipping of heading when moving backwards and stopping
9. Faster recovery from position offset, e.g. get back to the street faster