

Release Notes

Topic:	u-blox 5 Firmware Version 4.01
	GPS.G5-SW-08012
Author:	TN
Date:	April 30, 2008

We reserve all rights in this document and in the information contained therein. Reproduction, use or disclosure to third parties without express permission is prohibited.

© 2008 u-blox ag.

1 Introduction

The u-blox 5 Firmware Version 4.01 is a maintenance release primarily intended to run against chips with ROM firmware V4.00. No differences in navigation performance, sensitivity and Time-to-First-Fix have to be expected compared to Flash firmware V4.00.

Firmware V4.01 will replace Firmware V4.00. Please refer to the [Product Change Notifications](#) for further information. The firmware will be introduced into all new LEA-5H, TIM-5H and LEA-5T modules leaving the factory and it is available for download into the Flash memory of chipset designs (UBX-G5000) and into LEA-5H and TIM-5H.

The version information is provided in the NMEA \$GPTXT and UBX-MON-VER messages.

1.1 u-center

An updated version of u-center supporting the new messages is available on the u-blox website. This u-center version also includes the firmware update utility to download this firmware release into your u-blox 5 GPS products.

u-center 5.03 can be downloaded from our web page http://www.u-blox.com/products/u_center.html.

1.2 Terms of Use

Article 2 in the u-blox General Terms and Conditions applies. The General Terms and Conditions are accessible at <http://www.u-blox.com/offices>. Click on your regional office in order to open the applicable document.

1.3 Reference Documents

An updated version of the u-blox 5 Protocol Specification is now available.

[1] [u-blox 5 Protocol Specification](#), Doc. ID: GPS.G5-X-07036

2 New Features

UBX-CFG-RXM Configuration Message

The new CFG-RXM allows switching between Max. Performance Mode and Eco Mode.

Please refer to the [u-blox 5 Protocol Specification](#) [1] for more information. This document is available on the u-blox website.

Timing Mode and Single Satellite Timepulse Output

Timing Mode and Single Satellite Timepulse Output are exclusively supported by LEA-5T.

3 Improvements to Previous Versions

3.1 UBX Protocol

UBX-NAV-STATUS

The parameter “Time since Start-up” reports now the correct value.

UBX-CFG-NAV5

With previous firmware version, the maxSV parameter was sometimes discarded. Firmware V4.01 handles this correctly.

UBX-AID-ALP

Excessive traffic between the u-blox 5 receiver and the application processor could sporadically occur if AssistNow Offline data are stored on the application processor and downloaded to the u-blox 5 receiver upon power up. This problem has been fixed.

3.2 Navigation

Dynamic Platforms

The platforms “Stationary” and “Fixed” are now supported.

These platforms are internal to the Timing Mode with LEA-5T.

Leap Seconds

The handling of leap seconds in firmware V4.00 was incorrect before a valid fix was achieved. The handling of leap seconds in case of no valid fixes is now correct.

3.3 System Functions

Antenna Power in USB Suspend Mode

The antenna power is now turned off if the receiver enters USB Suspend Mode. USB startup recognition enumeration was improved