

# u-center v8.13

## *Public release notes*

### **Abstract**

Release notes containing general information, features, improvements, changes and known limitations for u-center v8.13.

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**Document Information**

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**Document status explanation**

Objective Specification	Document contains target values. Revised and supplementary data will be published later.
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Advance Information	Document contains data based on early testing. Revised and supplementary data will be published later.
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Early Production Information	Document contains data from product verification. Revised and supplementary data may be published later.
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Production Information	Document contains the final product specification.
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# 1 General Information

## 1.1 Released Files

The following table lists the files that have been released.

File	Description
u-center_v8.13.exe	u-center, release build, installer incl. Windows CDC-ACM and sensor USB driver
u-center_v8.13_public_release_notes_(UBX-14039883).pdf	
u-center_user_guide_(UBX-13005250).pdf	

## 1.2 Version and Checksum of Files

The following table lists the versions and the checksums of the files inside the files as in [Chapter 1.1](#).

File	Version	MD5
u-blox Windows CDC-ACM USB driver	1.2.0.8	
u-blox Windows USB sensor driver	2.1.0.5	
u-Center.exe	8.13	cb85c0e6f2a558107f855488eaba6544
flash.xml	84524	33f3fe346ffe1cb262ab8f5787dd3b6a
flash.xml_changelog.txt		dbdf5bff7c7cb2a83f71b5cc757397e0
flash.txt	59977	b49a4b5d33efa113737208e788cf3afc
NMEA.dll	8.13	05e7307a6bce119078fba4f44e1c6ab0
UBX.dll	8.13	035127539ba59ef2ddb18de58aedd9aa

## 1.3 Revision Number

The u-center has the revision number **87987**.

## 1.4 Released Documentation

- Public release notes (UBX-14044898)
- u-center user guide (UBX-13005250)

## 2 Features

### 2.1 Supported Microsoft Windows versions

u-center v8.13 will run on Microsoft Windows Vista up to and including Windows 10.

### 2.2 Supported Receiver Generations

u-center v8.13 can update the firmware of the following receiver generations:

- u-blox 5 with ROM 3.00, ROM 4.00, ROM 5.00
- u-blox 6 with ROM 6.00, ROM 6.02, ROM 7.03
- u-blox 7 with ROM 0.10, ROM 0.11, ROM 0.14, ROM 1.00
- u-blox M8 with ROM 0.21, ROM 0.22, ROM 2.01



Antaris based receivers are **no longer** supported.

### 2.3 Supported Protocol Specification Version

u-center v8.13 supports the u-blox protocol specification from version 10.00 up to and including version 17.00.

### 2.4 Multiple GNSS AssistNow Service

u-center v8.13 includes the multiple GNSS AssistNow Service (libMGA) version 1.01.

### 2.5 Debug Messages

The following messages will be enabled or polled when pressing the 'Debug Messages' button:

- Any UBX-INF
- UBX-ESF-MEAS
- UBX-ESF-STATUS
- UBX-MON-MSGPP
- UBX-NAV-CLOCK
- UBX-NAV-PVT
- UBX-NAV-SOL
- UBX-NAV-SVINFO
- UBX-RXM-SVSI (every 30 seconds)
- UBX-MON-HW (polled)
- UBX-MON-EXCEPT (polled)
- and additional u-blox debug messages

## 3 Improvements and Changes

### 3.1 Version 8.13

- Support of messages for M8L products
- Update of graphs for UBX-ESF-MEAS
- Visual improvements when using several monitors
- Update of statistic view (search and sort function)
- Fix problem with empty entries in table view
- Add option to hide tree and HEX view
- Add File transfer dialog
- Update of deviation map
- Show IRNSS flags

### 3.2 Version 8.12

- Update UBX-CFG-PM2
- Update UBX-CFG-TXSLOT
- Update UBX-NAV-TIMEUTC
- Update UBX-TIM-TP
- Update UBX-TIM-TM2
- Update UBX-TIM-VCOCAL
- Update UBX-ESF-MON
- Update UBX-MON-EXCEPT
- Update UBX-MON-HW
- Add support for LEA-M8T messages and firmware
- Add support for UTC standard (NTSC)
- Add Qi to database
- Add more EKF fields to database
- Add 2D error ellipse to database
- Odometer fields are now public in database
- Improve speed for deleting database
- Workspace and view configuration format changed
- Fix mismatch between binary console and message view
- Fix problem when saving map view
- Add extra line in consoles to separate data packets
- Add tooltip for satellite level view
- Add direction indicator of messages
- Add possibility to filter message tree by protocol specification versions
- Fix possible memory leak problems

### 3.3 Version 8.11

- Update of UBX-CFG-SMGR
- Update of UBX-CFG-DOSC
- Update of UBX-CFG-SMGR
- Update of UBX-CFG-ESRC
- Update of UBX-CFG-TP5
- Update of UBX-NAV-STATUS

- Update of UBX-TIM-TOS
- Add UBX-MON-SMGR, UBX-TIM-SMEAS and UBX-TIM-FCHG to periodic poll messages
- Set UBX-CFG-DOSC to public
- Set UBX-CFG-ESRC to public
- Set UBX-CFG-SMGR to public
- Set UBX-MON-SMGR to public
- Set UBX-TIM-DOSC to public
- Set UBX-TIM-FCHG to public
- Set UBX-TIM-SMEAS to public
- Set UBX-TIM-TOS to public
- Set UBX-TIM-VCOCAL to public
- Set UBX-TIM-VCOFF to public
- Link to User's Guide in the help menu
- Fix problem with connection tool tip
- Fix problem with Google Earth plug-in when altitude = null
- Add option to align time-pulse to BeiDou or GLONASS time in UBX-CFG-TP5 (FTS product only)
- Fix problem with x axes label
- Adding the option to continuously update the receiver with MGA data
- Adding pop-up message when connection to receiver fails
- Improve resolution of position and velocity data storage and plots
- Update of MGA online dialog
- NMEA strict 82 characters only applicable for UBX-CFG-NMEA-DATA2
- Fix possible memory leak problem for external interface devices

### 3.4 Version 8.10

- Update of UBX-MON-GNSS dialog
- Update of UBX-CFG-NAV5 dialog (added UTC standard configuration)
- Update of UBX-CFG-PRT dialog (renaming Pin to PIO)
- Set UBX-MGA-QZSS to public
- Set UBX-UPD-SOS to public
- Set UBX-LOG-RETRIEVE, UBX-LOG-RETRIEVEPOS, UBX-LOG-RETRIEVESTRING, UBX-LOG-RETRIEVEPOSEXTRA to public
- Rename of UBX-NAV-ODORESET to UBX-NAV-RESETO
- Make UDP and TCP client public again
- Fix localisation problem
- Fix problem when saving a log file from a network connection (invalid characters)
- Add menu option for AssistNow online and offline
- Add support for tool tips in message views
- Remove of Antaris support

### 3.5 Version 8.01

- Update of UBX-CFG-NAV5 dialog
- Update of UBX-NAV-AOPSTATUS dialog
- Update of UBX-NAV-HNR support
- Update of UBX-NAV-SAT dialog: ANO/AOP was switched
- Update of UBX-RXM-SFRBX dialog
- Support for UBX-EST-MON version 2
- Support for ROM 2.01

- Firmware update mechanism improvements (file system, new settings, )
- Added Timemark 1 and 2 edge information and time pulse quantization error to public chart usage
- Update of network connection menu
- Added command line option to connect to receiver
- Fix problem with 'Dump receiver diagnostic' in u-center
- Update of help dialog
- Update of database export to Google Maps HTML file (fix stack overflow in IE8)
- MGA dialog:
  - o Button in u-center to request a token
- Support for 50/250bps IMES
- ADR updates:
  - o Sensor-to-vehicle frame misalignment angle
  - o Yaw misalignment angle updates

### 3.6 Version 8.00

- Add UBX-CFG-HNR and UBX-NAV-HNR
- Fix UBX-CFG-PRT dialog: make 'Extended time-out' public
- Update of UBX-CFG-NMEA dialog
- Update of UBX-ESF-MEAS dialog
- Update of UBX-CFG-MSG dialog
- Update of NMEA-GSV
- NMEA-GSA proper handling of several messages (multi GNSS support)
- libMGA: minor fixes
- MGA dialog
  - o Set smart flow control as default
  - o Fix crash
  - o Add UBX-MGA-INI-EOP to known messages
  - o Make download button the default
- Add 3D button and support in Google Earth View
- Add zooming feature for Chart view (Ctrl + mouse wheel = zoom in/out, left mouse double click = fit)
- Reset TTFF when receiver is cold/warm/hot started
- Renaming



## 4 Known Limitations

### 4.1 Known Issues

- Enumerating the ports on a computer with many ports can take long
- Using protocol filter with silent / no receiver results in empty message tree

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