



u-center 19.06

GNSS evaluation software for Windows

Release Note

Abstract

This release note contains general information, features, improvements, changes and known limitations for u-center 19.06.

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Contents

1 General information.....	4
1.1 Released files.....	4
1.2 Version and checksum of files.....	4
1.3 Released documentation.....	4
2 Features.....	5
2.1 Supported Microsoft Windows versions.....	5
2.2 Supported receiver generations.....	5
2.3 Supported protocol specification version.....	5
2.4 External hardware support.....	5
2.5 Multiple GNSS AssistNow Service.....	5
2.6 Debug messages.....	5
3 Improvements and changes.....	7
3.1 Version 19.06.....	7
3.2 Version 19.05.....	7
3.3 Version 19.04.....	7
3.4 Version 19.03.....	7
3.5 Version 19.02.....	7
3.6 Version 19.01.....	7
4 Known limitations.....	9
4.1 Known issues.....	9

1 General information

The u-center GNSS evaluation software for automotive, mobile terminal and infrastructure applications provides a powerful tool for evaluation, performance analysis and configuration of the u-blox GNSS receiver.

1.1 Released files

The following table lists the files that have been released.

File	Description
u-center_v19.06.exe	u-center installer including u-blox CDC-ACM (USB) (x64 bit) driver v1.2.0.8 for Windows 7 and 8
u-center-v19.06_ReleaseNote_(UBX-19027736).pdf	Public release note
u-center_UserGuide_(UBX-13005250).pdf	User guide



For Windows 10, the CDC-ACM (USB) driver from Microsoft should be used, which is available from Windows Update.



u-blox Sensor and VCP drivers are deprecated, so they have been removed from the release package.

1.2 Version and checksum of files

The following table lists the versions and the checksums of the [Released files](#).

File	Version	MD5
u-blox GNSS Standard Driver for Windows	1.2.0.8	
u-center.exe	19.06	1d2db8d033ad10e4fc83864519d701b8
flash.xml	200037	942e4b7df0b54dcd7c09719aff40d28a
flash.xml_changelog.txt		fe2feca8cff8e9f0004c5abd15b47571
flash.txt	101098	b49a4b5d33efa113737208e788cf3afc
NMEA.dll	19.06	32c6a12ba33eb0b9f6a2ffe4e0ea676e
RTCM.dll	19.06	a812b2386ff0ee3aae9d0aecb3700ef9
sqlite3.dll	3.21.0.0	07fb6d31f37fb1b4164bef301306c288
UBX.dll	19.06	d45a909df4a2479603d6dec578b8f8af
ubxfwupdate.exe	19.03	
ubloxgnssusbcons.exe	18.4.0.0	7571060ea6937f31c6e5d7e4bebd864a

1.3 Released documentation

- Public Release Note (UBX-19027736)
- u-center User Guide (UBX-13005250)

2 Features

2.1 Supported Microsoft Windows versions

u-center 19.06 runs on Microsoft Windows Vista and later versions up to (including) Windows 10.

2.2 Supported receiver generations

u-center 19.06 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 8/M8 with ROM 0.21, ROM 0.22, ROM 2.01, ROM 3.01
- u-blox F9 with ROM 0.30, ROM 0.40, ROM 1.01



u-blox 5 receiver support is end of life and will be removed in one of the next versions.

2.3 Supported protocol specification version

u-center 19.06 supports the u-blox protocol specification from version 10.00 and later versions up to (including) version 27.

2.4 External hardware support

The following external hardware is supported to interface with the receiver:

Interface	Device	DLL version
DDC/I2C	Totalphase Aardvark I2C/SPI Host Adapter	aardvark.dll v5.15 for Windows 32-bit
DDC/I2C	Diolan U2C-12 USB-I2C/SPI/GPIO Adapter	i2cbrdg.dll v1.0.0.9 for Windows 32-bit
SPI	Totalphase Aardvark I2C/SPI Host Adapter	aardvark.dll v5.15 for Windows 32-bit
SPI	Totalphase Cheetah SPI Host Adapter	aardvark.dll v5.15 for Windows 32-bit
SPI	Diolan U2C-12 USB-I2C/SPI/GPIO Adapter	i2cbrdg.dll v1.0.0.9 for Windows 32-bit

2.5 Multiple GNSS AssistNow Service

u-center 19.06 includes the multiple GNSS AssistNow Service (libMGA) version 1.10.

2.6 Debug messages

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

- Any UBX-INF
- UBX-MON-MSGPP
- UBX-NAV-CLOCK
- UBX-NAV-PVT
- UBX-NAV-SIG
- UBX-NAV-ORB
- UBX-NAV-SAT
- UBX-RXM-SVSI (every 30 seconds)
- UBX-MON-HW (polled)

- UBX-MON-EXCEPT (polled)
- and additional u-blox debug messages

The following messages will additionally be enabled or polled when pressing the "Debug Messages" button for ADR product line:

- UBX-ESF-MEAS
- UBX-ESF-STATUS

The following messages will additionally be enabled or polled when pressing the "Debug Messages" button for HPG product line:

- UBX-NAV-RELPOSNED
- UBX-NAV-SVIN
- UBX-MON-IO
- UBX-NAV-SOL
- UBX-NAV-AOPSTATUS

The following messages will additionally be enabled or polled when pressing the "Debug Messages" button for SPG product line:

- UBX-MON-IO
- UBX-NAV-SOL
- UBX-NAV-AOPSTATUS

3 Improvements and changes

3.1 Version 19.06

- Feature: Signal identifiers are visible for newly added bands: GPS L2 CL, GPS L2 CM, Galileo E1 B, Galileo E5 bl, Galileo E5 bQ, BeiDou B2I D1, BeiDou B2I D2, QZSS L2 CM, QZSS L2 CL, GLONASS L2 OF.
- Feature: Support for QZSS signal has been increased to 10 signals.
- Improvement: Cosmetic changes done to the layout of the generation 9 GNSS configuration view.
- Improvement: u-blox Generation 9 now visible in u-center's status bar and menu item "Receiver->Generation".
- Improvement: The load/save receiver configuration dialog in menu item "Tools->GNSS Configuration" now supports generation 9 receivers.
- Bug fix: Fixed the display of the "2d err" property in statistics view and in deviation map.
- Bug fix: Fixed u-center crashing while closing.

3.2 Version 19.05

- Improvement: In statistics view, the average and standard deviation column is now shown to two decimal places for the "Carrier range status" property.
- Bug fix: Message UBX-HNR-INS is now available in u-center.
- Bug fix: Help dialog now drawn correctly.

3.3 Version 19.04

- Bug fix: Fixed the problem with NMEA message parser so that it can now detect invalid NMEA messages properly.
- Bug fix: UBX-CFG-VALGET now updates the hex view as the user enters configuration keys to the request list. Also the user now has to press "Send" to send the request to the receiver instead of "Poll".
- Bug fix: Fixed issues in the log file player that led to messages being omitted or being played more than once.

3.4 Version 19.03

- Bug fix: Fixed Beidou B2 signal visibility in "Satellite-Levels" view.
- Bug fix: High Navigation Rate data can now be viewed in the table view.

3.5 Version 19.02

- Improvement: Added support for Bosch SMI230 IMU sensor in UBX-CFG-SPT and UBX-MON-SPT.
- Improvement: Updated libMga to v19.02.
- Bug fix: u-center now saves the configuration correctly.
- Bug fix: Fixed u-center crash issue while pressing the "Load differences from default" button in "View->Generation 9 Configuration View".

3.6 Version 19.01

- Improvement: Added support for the new version of UBX-NAV-RELPOSNEED in u-center.
- Bug fix: Fixed bug for the NTRIP server/caster UI.

- Bug fix: Added grouping for items related to automatic configuration to NTRIP server dialog. Fixed the problem where clicking "Get configuration automatically" or "Enable authentication" caused other UI elements to revert back to previous values.
- Bug fix: NTRIP server now ignores the case of the mount point name.
- Bug fix: Satellite-levels history view has been fixed to show elevation and azimuth in degrees instead of radians.
- Bug fix: Fixed the empty KML file issue.
- Bug fix: Fixed bug for UBX-RXM-RTCM to show all supported RTCM input messages.
- Bug fix: The accidental removal of configuration view menu item has been reverted.

4 Known limitations

4.1 Known issues

- Enumerating the ports on a computer with many ports can take a long time.
- Using the protocol filter with "silent" or "no receiver" results in an empty message tree.
- In u-center v19.06, when selecting the filename in the "Tools -> GNSS configuration" dialog, it is not possible to specify a new file in the file selection dialog. It is only possible to select an existing file. However, if a new file is required, just enter name directly into the configuration file text entry field.

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