



u-center v19.01

GNSS evaluation software for Windows

Release Note

Abstract

This release note contains general information, features, improvements, changes and known limitations for u-center v19.01.

Document Information

Title	u-center v19.01	
Subtitle	GNSS evaluation software for Windows	
Document type	Release Note	
Document number	UBX-19002337	
Revision and date	R01	31-January-2019
Disclosure Restriction	Production Information	

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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 19.01.....	7
3.2 Version 18.11.....	7
3.3 Version 18.10.....	7
3.4 Version 18.09.....	7
3.5 Version 18.08.....	7
4 Known Limitations.....	8
4.1 Known Issues.....	8

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_v19.01.exe	u-center installer including u-blox CDC-ACM (USB) (x64 bit) driver v1.2.0.8 for Windows 7 and 8
u-center-v19.01_ReleaseNote_(UBX-19002337).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 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	19.01	2e29faa9a6669142615c6124745a7536
flash.xml	200037	afe9d5a0d3e6a1bf8df27f637a1c7534
flash.xml_changelog.txt		71280932d73cd4accecc396b75df4c4a6
flash.txt	101098	b49a4b5d33efa113737208e788cf3afc
NMEA.dll	19.01	e4ff025c724cc07bf5ebcc85867383b6
RTCM.dll	19.01	a812b2386ff0ee3aae9d0aecb3700ef9
sqlite3.dll	3.21.0.0	07fb6d31f37fb1b4164bef301306c288
ubloxgnssusbcons.exe	18.4.0.0	b28fee3ed98b5ab1e1e7fbda2b9cdf91
UBX.dll	19.01	fe456a0bfe66fdf440ce6d616e788f43
ubxfwupdate.exe	18.09	

1.3 Released Documentation

- Public Release Note (UBX-19002337)
- u-center User Guide (UBX-13005250)

2 Features

2.1 Supported Microsoft Windows versions

u-center v19.01 runs on Microsoft Windows Vista and later versions up to (including) Windows 10.

2.2 Supported Receiver Generations

u-center v19.01 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 v19.01 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 v19.01 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-RELPOSNEED
- 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 19.01

- Improvement: Added support for the new version of UBX-NAV-RELPOSNE 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.

3.2 Version 18.11

- Improvement: Wrong user credentials detection in the NTRIP client has been improved and a copy button has been added to the NTRIP log.
- Bug fix: Fixed connection/reconnection problems with u-center's NTRIP client.
- Bug fix: Updated 48x48 pixel main icon to comply with new CI.
- Bug fix: Fixed rounding error in UBX-CFG-TMODE3 that could result in a binary string rejected by the receiver.

3.3 Version 18.10

- Improvement: New algorithm for epoch detection implemented.
- Improvement: Updated icons to be compliant with new u-blox Corporate Identity.
- Bug fix: Fixed crash in MGA Offline transfer to receiver.
- Bug fix: Fixed display of generation 9 chip ID in UBX-CFG-OTP message.
- Bug fix: Added request interval field to ntrip client config dialog to allow the user to specify the interval time between ntrip client requests. Also fixed bug so the current position of the receiver is sent if a "fixed" location is not being used.

3.4 Version 18.09

- Improvement: Added support for new message UBX-MON-HW3.
- Improvement: Added support for new message UBX-MON-RF.
- Bug fix: Child processes will now automatically be killed if u-center terminates unexpectedly.

3.5 Version 18.08

- Improvement: The visible gap until the new map is loaded while using the map view is removed.
- Improvement: The "Info" toolbar button in the GNSS driver view has been activated.
- Bug fix: A single SV is now visualized in satellite views (satellite level and satellite level history).

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

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