



# u-center 19.03

## GNSS evaluation software for Windows

### Release Note

#### **Abstract**

This release note contains general information, features, improvements, changes and known limitations for u-center 19.03.

## Document Information

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# 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_v19.03.exe	u-center installer including u-blox CDC-ACM (USB) (x64 bit) driver v1.2.0.8 for Windows 7 and 8
u-center-v19.03_ReleaseNote_(UUBX-19012610).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	19.03	248f6e530188243a67091d0c4bee3bea
flash.xml	200037	ef2df38383cb2efb175ddec4f1c681b5
flash.xml_changelog.txt		dde6861b1c9bfd28bed59a2293268e43
flash.txt	101098	bb49a4b5d33efa113737208e788cf3afc
NMEA.dll	19.03	f8995bffc898b2671f9fdd76b3d84f4a
RTCM.dll	19.03	a812b2386ff0ee3aae9d0aecb3700ef9
sqlite3.dll	3.21.0.0	07fb6d31f37fb1b4164bef301306c288
UBX.dll	19.03	9af05048caf87947866983750275309f
ubxfwupdate.exe	19.03	
ubloxgnssusbcons.exe	18.4.0.0	7571060ea6937f31c6e5d7e4bebd864a

## 1.3 Released documentation

- Public Release Note (UUBX-19012610)
- u-center User Guide (UBX-13005250)

## 2 Features

### 2.1 Supported Microsoft Windows versions

u-center 19.03 runs on Microsoft Windows Vista and later versions up to (including) Windows 10.

### 2.2 Supported receiver generations

u-center 19.03 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 19.03 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 19.03 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 19.03

- 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.

### 3.2 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".

### 3.3 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.

### 3.4 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.

### 3.5 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.

### 3.6 Version 18.09

- Improvement: Added support for new message UBX-MON-HW3.

- Bug fix: Child processes will now automatically be killed if u-center terminates unexpectedly.



## 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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