



u-center v18.11

GNSS evaluation software for Windows

Release Note

Abstract

This release note contains general information, features, improvements, changes and known limitations for u-center v18.11.

Document Information

Title	u-center v18.11	
Subtitle	GNSS evaluation software for Windows	
Document type	Release Note	
Document number	UBX-18067463	
Revision and date	R01	30-November-2018
Disclosure Restriction	Production Information	

u-blox reserves all rights to this document and the information contained herein. Products, names, logos and designs described herein may in whole or in part be subject to intellectual property rights. Reproduction, use, modification or disclosure to third parties of this document or any part thereof without the express permission of u-blox is strictly prohibited.

The information contained herein is provided "as is" and u-blox assumes no liability for the use of the information. No warranty, either express or implied, is given with respect to, including but not limited to, the accuracy, correctness, reliability and fitness for a particular purpose of the information. This document may be revised by u-blox at any time. For most recent documents, please visit www.u-blox.com.

Copyright © 2018, u-blox AG.

u-blox is a registered trademark of u-blox Holding AG in the EU and other countries.

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 18.11.....	7
3.2 Version 18.10.....	7
3.3 Version 18.09.....	7
3.4 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_v18.11.exe	u-center installer including u-blox CDC-ACM (USB) driver v1.2.0.8 for Windows 7 and 8
u-center-v18.11_ReleaseNote_(UBX-18067463).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	18.11	ddd46d4feb0516a92af862581e9a2d38
flash.xml	200037	afe9d5a0d3e6a1bf8df27f637a1c7534
flash.xml_changelog.txt		71280932d73cd4acce396b75df4c4a6
flash.txt	101098	b49a4b5d33efa113737208e788cf3afc
NMEA.dll	18.11	cce179c71a06595d39e17c21bccd60bb
RTCM.dll	18.11	a812b2386ff0ee3aae9d0aecb3700ef9
sqlite3.dll	3.21.0.0	07fb6d31f37fb1b4164bef301306c288
ubloxgnssusbcons.exe	18.4.0.0	b28fee3ed98b5ab1e1e7fbda2b9cdf91
UBX.dll	18.11	762ade847e61735e636ff9cbba22d2fd
ubxfwupdate.exe	18.09	

1.3 Released Documentation

- Public Release Note (UBX-18067463)
- u-center User Guide (UBX-13005250)

2 Features

2.1 Supported Microsoft Windows versions

u-center v18.11 runs on Microsoft Windows Vista and later versions up to (including) Windows 10.

2.2 Supported Receiver Generations

u-center v18.11 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 v18.11 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 v18.11 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 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.

3.2 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.

3.3 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.

3.4 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

Contact

For complete contact information visit us at www.u-blox.com.

u-blox Offices

North, Central and South America

u-blox America, Inc.

Phone: +1 703 483 3180
E-mail: info_us@u-blox.com

Regional Office West Coast

Phone: +1 408 573 3640
E-mail: info_us@u-blox.com

Technical Support

Phone: +1 703 483 3185
E-mail: support_us@u-blox.com

Headquarters Europe, Middle East, Africa

u-blox AG

Phone: +41 44 722 74 44
E-mail: info@u-blox.com
Support: support@u-blox.com

Documentation Feedback

Email: docsupport@u-blox.com

Asia, Australia, Pacific

u-blox Singapore Pte. Ltd.

Phone: +65 6734 3811
E-mail: info_ap@u-blox.com
Support: support_ap@u-blox.com

Regional Office Australia

Phone: +61 2 8448 2016
E-mail: info_anz@u-blox.com
Support: support_ap@u-blox.com

Regional Office China (Beijing)

Phone: +86 10 68 133 545
E-mail: info_cn@u-blox.com
Support: support_cn@u-blox.com

Regional Office China (Chongqing)

Phone: +86 23 6815 1588
E-mail: info_cn@u-blox.com
Support: support_cn@u-blox.com

Regional Office China (Shanghai)

Phone: +86 21 6090 4832
E-mail: info_cn@u-blox.com
Support: support_cn@u-blox.com

Regional Office China (Shenzhen)

Phone: +86 755 8627 1083
E-mail: info_cn@u-blox.com
Support: support_cn@u-blox.com

Regional Office India

Phone: +91 80 4050 9200
E-mail: info_in@u-blox.com
Support: support_in@u-blox.com

Regional Office Japan (Osaka)

Phone: +81 6 6941 3660
E-mail: info_jp@u-blox.com
Support: support_jp@u-blox.com

Regional Office Japan (Tokyo)

Phone: +81 3 5775 3850
E-mail: info_jp@u-blox.com
Support: support_jp@u-blox.com

Regional Office Korea

Phone: +82 2 542 0861
E-mail: info_kr@u-blox.com
Support: support_kr@u-blox.com

Regional Office Taiwan

Phone: +886 2 2657 1090
E-mail: info_tw@u-blox.com
Support: support_tw@u-blox.com