



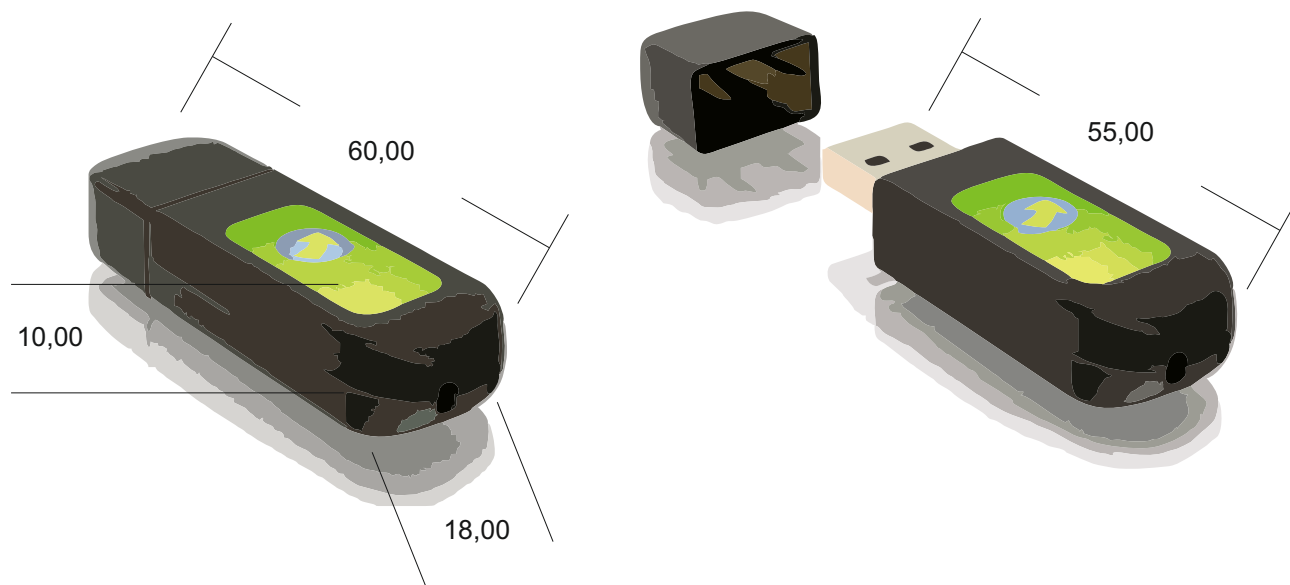
NAVILOCK®

Specification

60169

Navilock GPS USB Stick NL-701US

EAN: 4043619601691



Edition: 11/2018



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Overview

NL-701US is a USB GPS receiver based on u-blox 7 chipset has a built-in antenna for high sensitivity. It is possible to use this GPS receiver with a laptop and suitable routing software for navigation. Due to its compact design it is the ideal companion on every tour.

Features

- Connector: 1 x USB 2.0 Type-A male
- Chipset: u-blox UBX-G7020-KT
- Frequency:
 - GPS: L1, 1575.4200 MHz
 - GLONASS: L1, 1602 (k x 0.5625) MHz
 - QZSS: L1, 1575.4200 MHz
- Accepts the signals of up to 56 satellites at the same time
- Supports AssistNow online / offline, SBAS (WAAS, EGNOS and MSAS)
- Supports NMEA 0183 protocols: GGA, GSA, GSV, RMC, VTG, TXT
- Baud Rate: 9600 bps
- Update rate: 1 Hz
- Sensibility: -162 dBm tracking / -148 dBm acquisition (GPS)
- Operating temperature: -20 °C ~ 60 °C
- Power supply: 5 V DC
- Current consumption: max. 40 mA
- Cold start in ca. 29 seconds
- Hot start in ca. 1 second
- Positioning accuracy:
 - 2.5 m CEP (Circular Error Probable)
 - 2.0 m CEP with SBAS (Circular Error Probable)
- Dimensions (LxWxH): ca. 65.5 x 23.0 x 11.0 mm



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Technical specifications

Receiver performance data

Receiver Type	u-blox 7, 56-channel, L1 frequency, C/A code
Horizontal Position	< 2.5 m (Autonomous)
Accuracy	< 2.0 m (WAAS) (CEP, 50%, 24-hour static, -130 dBm)
Velocity Accuracy	<0.1 m/s (speed) <0.5° (heading) (50% @ 30 m/s)
Time To First Fix	Autonomous (All at -130dBm)
Hot start	1s
Warm start	28 s
Cold start	29 s
Sensitivity	-148 dBm (acquisition)
(Autonomous)	-162 dBm (tracking & navigation)
Max. Update Rate	5 Hz
Max. Altitude	< 50.000 m
Max. Velocity	< 1.800 km/h
Protocol Support	NMEA 0183 v2.3 (compatible to 3.0) 115200 bps N,8,1; GGA, GLL, GSA, GSV, RMC, VTG
SBAS Support	WAAS, EGNOS, MSAS, GAGAN
Dynamics	< 4g



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Electrical data

Power Supply	5 V
Power Consumption	50 mA / average tracking

Environmental data

Operating temperature	-20 ~ 60°C
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Mechanical data

Dimension	
With cap	18 (W) x 60 (L) x 10 (H) mm
Without cap	18 (W) x 55 (L) x 10 (H) mm

Connector

USB 2.0 Type-A male





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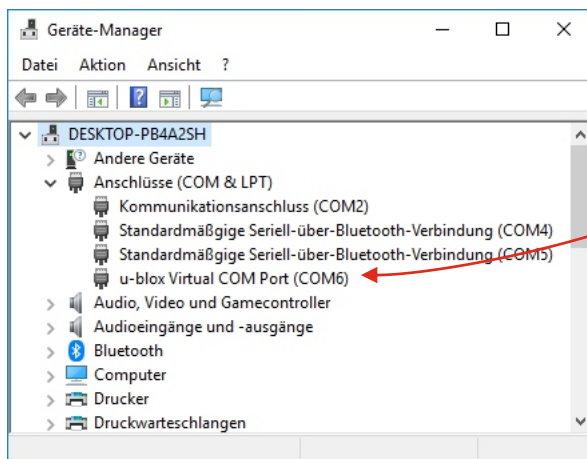
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Installation for Windows 7 / 10

Plug the NL-701US in any USB port.

Use driver from u-blox (chipset vendor) website: https://www.u-blox.com/de/product-resources?f%5B0%5D=field_file_products%253Afield_product_category%3A152&f%5B1%5D=field_file_category%3A221.

Please check the Device Manager and remake the COM port from your GPS receiver. You need this for other optional software such as navigation solutions.





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For a first receiver test you can use the u-center software from u-blox website: https://www.u-blox.com/sites/default/files/u-centersetup_v18.10.zip.

The u-center GNSS evaluation software provides a powerful tool for evaluation, performance analysis and configuration of u-blox GNSS receivers. Its unique flexibility makes the u-center GNSS evaluation software an invaluable tool for evaluation, analysis and configuration of u-blox GNSS receivers. u-blox GNSS receivers can be configured using the u-center evaluation software.

- Supports NMEA and u-blox UBX binary protocol
- Integrated AssistNow client for A-GNSS
- GNSS configuration and control
- Structured data visualization in realtime
- Message, binary and text output
- Tabular outputs with online statistics
- Graphical data visualization with zooming, panning and scaling functions:
- 2-dimensional plots from large choice of data sets
- Sky plots
- Deviation map
- Visualization with maps
- GNSS camera view: photographic data can be stored in the log file together with the navigation data and later be replayed in the application.
- Export data files to Google Earth and Google Maps
- Docking views (realtime cockpit instrumentation displays):
- Satellite constellation
- Compass
- Clock
- Altimeter
- Speedometer
- Satellite and GNSS information panels
- Data recorder and playback
- Full copy paste support to transfer information to standard PC application software
- Runs on Windows 2000, XP, Vista, 7, 8.1, 10



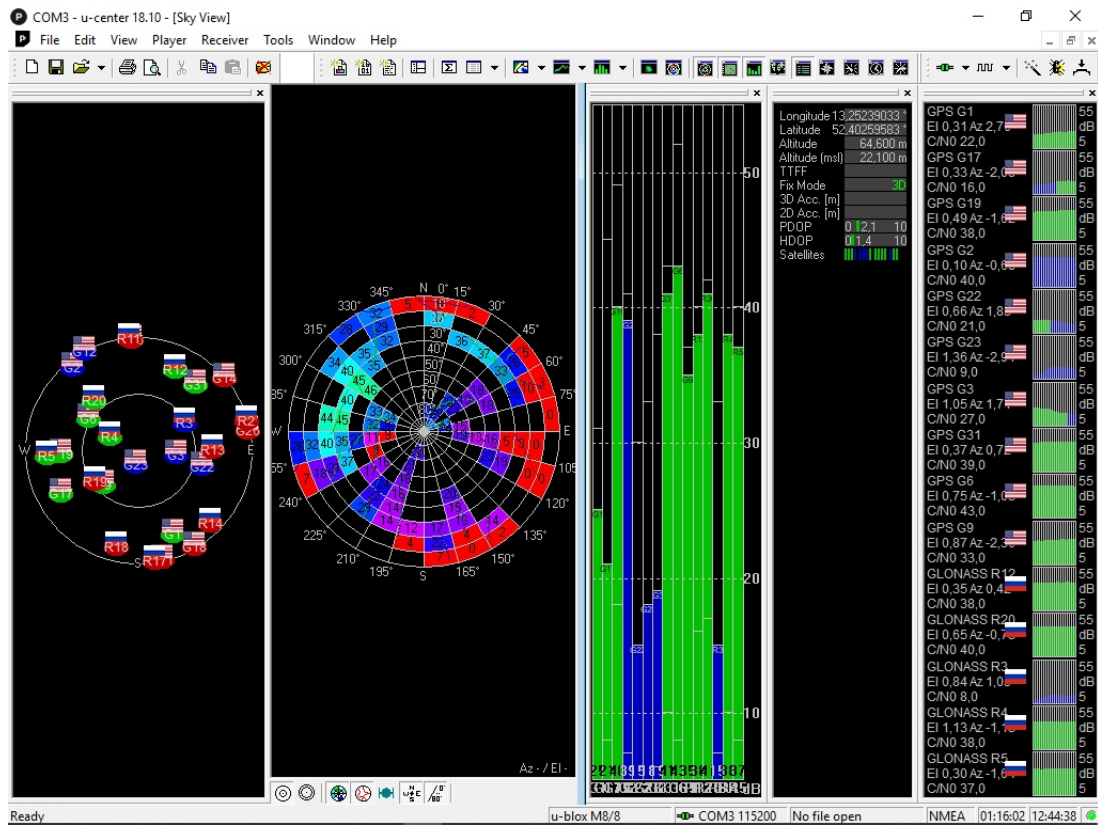
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u-center 18.10





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Support Navilock

If you have further questions, please contact our customer support
support@navilock.de.

You can find current product information on our homepage: www.navilock.com.

Final clause

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Declaration of conformity

Products with a CE symbol fulfill the EMC directive (2004/108/EC), which were released by the EU-commission.

The declaration of conformity can be downloaded here:

<http://www.navilock.de/service/conformity>



WEEE-notice

The WEEE (Waste Electrical and Electronic Equipment)-directive, which became effective as European law on February 13th 2003, resulted in an all out change in the disposal of disused electro devices. The primarily purpose of this directive is the avoidance of electrical waste (WEEE) and at the same time the support of recycling and other forms of recycling in order to reduce waste. The WEEE-logo on the device and the package indicates that the device should not be disposed in the normal household garbage. You are responsible for taking the disused electrical and electronical devices to a respective collecting point. A separated collection and reasonable recycling of your electrical waste helps handling the natural resources more economical. Furthermore recycling of electrical waste is a contribution to keep the environment and thus also the health of men. Further information about disposal of electrical and electronical waste, recycling and the collection points are available in local organizations, waste management enterprises, in specialized trade and the producer of the device.

Compliance with RoHS

This product complies with the directive 2002/95/EC of the European parliament and the council from January 27th 2003 concerning the restricted use of dangerous substances in electrical and electronical devices (RoHS) as well as its modification. This product complies with the directive 2011/65/EU which becomes effective from January 3rd 2013.