

# Navilock NL-82002U USB 2.0 Multi GNSS UDR Receiver u-blox NEO-M8U 1.5 m

## Description

The USB 2.0 Multi GNSS UDR receiver by Navilock based on u-blox NEO-M8U chipset has a built-in active antenna as well as high-sensitivity sensors such as a 3D accelerometer and a 3D gyroscope. In conjunction with a laptop, a reliable position determination is also possible when the GNSS signal is interrupted.



1,5 m

## Note

The manual contains essential installation and commissioning conditions for the successful operation of this GNSS receiver!

**Item no. 62756**

EAN: 4043619627561

Country of origin: Taiwan, Republic of China

Package: Retail Box

## Technical details

- Connector: USB 2.0 Type-A male
- Chipset: u-blox NEO-M8U
- Frequency:
  - GPS: L1, 1575.4200 MHz
  - GLONASS: L1, 1602 (k x 0.5625) MHz
  - BEIDOU COMPASS: B1, 1561.0980 MHz
  - GALILEO: E1, 1575.4200 MHz
  - QZSS: L1, 1575.4200 MHz
- Accepts the signals of up to 72 satellites at the same time
- Supports AssistNow online / offline, SBAS (WAAS, EGNOS, QZSS and MSAS)
- Supports NMEA 0183 protocols: GGA, GSA, GSV, RMC, VTG
- Supports UDR from NMEA 4.1
- Auto Baud Rate up to 115200 bps
- Update rate: up to 20 Hz
- Sensibility max. -160 dBm
- IPX6 protection class
- Magnetic, non-slip on the bottom
- LED-indicator for GPS status
- Operating temperature: -20 °C ~ 60 °C
- Cold start in ca. 26 seconds
- Hot start in ca. 1 second
- Positioning accuracy: 2.5 m CEP (Circular Error Probable) and 2 m CEP with SBAS
- Cable length: ca. 1.5 m

- Dimensions (LxWxH): ca. 65 x 45 x 22 mm

Microsoft Sensor and Location Platform ([Website](#))

- Profit from Windows applications (e.g. weather, maps, etc)
  - Supporting the GNSS location platform API (32 bit)
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## System requirements

- Windows Vista/7/8/8.1/10/11, Linux Kernel 2.6
  - PC or laptop with a free USB Type-A port
  - For devices with OTG function and optional OTG adapter: Windows 10
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## Package content

- USB 2.0 receiver
  - Navilock support CD incl. driver and user manual
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## Images



## General

Suitable for outdoor:	yes
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## Interface

connector:	1 x USB 2.0 Type-A male
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## Technical characteristics

Operating voltage:	5 V
Chipset:	u-blox NEO-M8U
Frequency range:	BEIDOU: B1, 1561.0980 MHz GALILEO: L1 1575.4200 MHz GLONASS: G1, 1.6025625 - 1.6155000 GHz GPS: L1, 1,5754200 GHz
Operating temperature:	-20 °C ~ 60 °C
Current consumption:	45 mA
Sensibility:	-160 dBm
Update rate:	up tp 20 Hz

## Physical characteristics

Housing colour:	black
Cable colour:	black
Cable length incl. connector:	1.5 m
Length:	65 mm
Width:	45 mm
Height:	22 mm