

# Navilock NL-82022MU USB 2.0 Multi GNSS UDR Receiver u-blox NEO-M8U 4.5 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. The NL-82022MU GNSS receiver is especially designed for installation on a white ground (camper, bus etc.) It is unremarkable and fits into the vehicle concept due to its housing design.



**Item no. 62780**

EAN: 4043619627806

Country of origin: Taiwan,  
Republic Of China

Package: Retail Box

## Note

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

## Specification

- 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
- IPX7 protection class
- Operating temperature: -20 °C ~ 60 °C
- Power supply: 5 V DC
- Current consumption: max. 45 mA
- 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. 4.5 m

- Dimensions (Ø x H without screw thread): ca. 62 mm x 21 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, 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
- Mounting material: stainless steel nut and washer
- Navilock support CD incl. driver and user manual

## General

|                       |      |
|-----------------------|------|
| Protection category:  | IPX7 |
| Suitable for outdoor: | yes  |

## Interface

|            |                         |
|------------|-------------------------|
| connector: | 1 x USB 2.0 Type-A male |
|------------|-------------------------|

## Technical characteristics

|                        |  |
|------------------------|--|
| Operating voltage:     | 5 V  |
| Chipset:               | u-blox NEO-M8U   |
| Frequency range:       | BEIDOU: B1, 1561.0980 MHz<br>GALILEO: L1 1575.4200 MHz<br>GLONASS: G1, 1.6025625 - 1.6155000 GHz<br>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:               | white |
| Cable colour:                 | black |
| Cable length incl. connector: | 4.5 m |
| Diameter:                     | 62 mm |
| Height:                       | 21 mm |