

# Navilock NL-82004U 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-82004U GNSS receiver can be installed onto different vehicle roofs (car, truck, bus etc.) by using the included installation material. Thus it can perfectly fit into the vehicle concept, due to its design.



**Item no. 62779**

## Note

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

EAN: 4043619627790

Country of origin: Taiwan,  
Republic Of China

Package: Retail Box

## 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
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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:	4.5 m
Diameter:	62 mm
Length:	65 mm
Height:	21 mm