

# Navilock NL-82022MP MD6 Serial Multi GNSS UDR Receiver u-blox NEO-M8U 5 m

## Description

The MD6 serial 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 MD6 universal connector enables the connection of optional USB or serial connecting cables. The NL-82022MP 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.

## Note

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



**Item no. 62755**

EAN: 4043619627554

Country of origin: Taiwan,  
Republic Of China

Package: Retail Box

## Technical details

- Connector: MD6 Navilock plug (USB or serial cable are optional available)
- 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
- PPS signal on pin 6
- Update rate: up to 20 Hz
- Sensibility max. -160 dBm
- IPX7 protection class
- Operating temperature: -20 °C ~ 60 °C
- Power supply: 5 - 48 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. 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
  - MD6 connection cable
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## Package content

- MD6 serial receiver
  - Mounting material: stainless steel nut and washer
  - Navilock support CD incl. driver and user manual
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## Images



## General

Protection category:	IPX7
Suitable for outdoor:	yes

## Interface

connector:	1x MD6 serial
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## Technical characteristics

Operating voltage:	5 - 48 V DC
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 to 20 Hz

## Physical characteristics

Housing colour:	white
Cable colour:	black
Cable length incl. connector:	5 m
Diameter:	62 mm
Height:	21 mm