

# Navilock NL-82004P MD6 Seriell Multi GNSS UDR Empfänger 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-82004P 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.



## Note

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

## Specification

- 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)

## System requirements

- Windows Vista/7/8/8.1/10, Linux Kernel 2.6
- MD6 connection cable

## Package content

## Item no. 62665

EAN: 4043619626656

Country of origin: Taiwan, Republic Of China

Package: Retail Box



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

| General                       |  |
|-------------------------------|--|
| Protection category:          | <b>standard</b><br>IPX7  |
| Suitable for outdoor:         | <b>standard</b><br>yes   |
| Interface                     |  |
| connector:                    | <b>standard</b><br>1x MD6 serial   |
| Technical characteristics     |  |
| Operating voltage:            | <b>standard</b><br>5 - 48 V DC   |
| Chipset:                      | <b>standard</b><br>u-blox NEO-M8U  |
| Frequency range:              | <b>standard</b><br>BEIDOU: B1, 1.561098 GHz<br>GALILEO: E1 1575.4200 MHz<br>GPS: L1, 1575.4200 MHz<br>GLONASS: G1, 1.6025625 - 1.6155000 GHz |
| Operating temperature:        | <b>standard</b><br>-20 °C ~ 60 °C  |
| Current consumption:          | <b>standard</b><br>45 mA   |
| Sensibility:                  | <b>standard</b><br>-160 dBm  |
| Update rate:                  | <b>standard</b><br>up tp 20 Hz   |
| Physical characteristics      |  |
| Housing colour:               | <b>standard</b><br>black   |
| Cable colour:                 | <b>standard</b><br>black   |
| Cable length incl. connector: | <b>standard</b><br>1.5 m<br>5 m  |
| Diameter:                     | <b>standard</b><br>62 mm   |
| Length:                       | <b>standard</b><br>65 mm   |
| Height:                       | <b>standard</b><br>21 mm   |