

# Navilock NL-3331 M8 Serial Multi GNSS Receiver MT3333 0.5 m

## Description

The M8 serial multi GNSS Receiver based on MT3333 chipset has a built-in antenna for high sensitivity. It is possible to use this GNSS receiver with a laptop and suitable routing software for navigation. The M8 universal connector is waterproof and enables the connection of [optional connecting cables](#) with many different connectors. The 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.



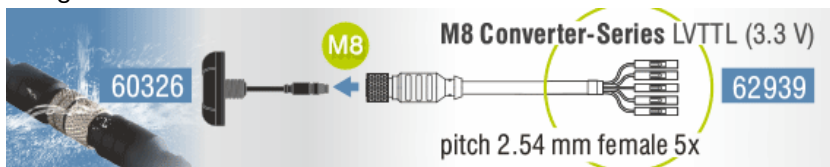
MEDIATEK MT3333

**Item no. 60326**

EAN: 4043619603268

Country of origin: Taiwan,  
Republic of China

Package: Retail Box



## Technical details

- Connector: 1 x M8 Navilock waterproof connecting plug
- Chipset vendor / type: MediaTek MT3333
- Frequency:
  - GALILEO: E1, 1575.4200 MHz
  - GPS: L1, 1575.4200 MHz
  - GLONASS: G1, 1602 (k x 0.5625) MHz
- Channels: 33 tracking, 99 acquisition
- Supports NMEA 0183 V3.01 protocols: GGA, GSA, GSV, RMC, VTG
- Baud rate: 9600 bps
- Update rate: 1 - 10 Hz
- Sensibility: max. -165 dBm
- Cold start in ca. 34 seconds
- Hot start in ca. 1 second
- Reacquisition in ca. 1 second average
- Positioning accuracy:
  - 2.5 m CEP (Circular Error Probable)
  - 2.0 m CEP with SBAS (Circular Error Probable)
- Speed: 0.1 m/s

- Datum: WGS 84
- Dynamic limits:
  - Acceleration limit: smaller than 4 g
  - Height limit: 18000 m
  - Speed limit: 515 m/s
- Power supply: 5 V DC
- Current consumption: max. 45 mA
- Protection class: IPX7
- Operating temperature: -20 °C ~ 60 °C
- Cable length: ca. 0.5 m
- Dimensions (Ø x H without screw thread): ca. 62 mm x 21 mm

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## System requirements

- Windows Vista/7/8.1/10/11, Linux Kernel 2.6
- M8 connection cable

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## Package content

- M8 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: | 1 x M8 male |
|------------|-------------|

## Technical characteristics

|                        |  |
|------------------------|--|
| Operating voltage:     | 5 V DC   |
| Chipset:               | MediaTek MT3333  |
| Frequency range:       | GALILEO: L1 1575.4200 MHz<br>GLONASS: G1, 1.6020000 (k x 0.5625) GHz<br>GPS: L1, 1,5754200 GHz |
| Operating temperature: | -20 °C ~ 60 °C   |
| Current consumption:   | 45 mA  |
| Sensibility:           | -165 dBm   |
| Update rate:           | 1 - 10 Hz  |

## Physical characteristics

|                               |                              |
|-------------------------------|------------------------------|
| Housing colour:               | black                        |
| Cable length incl. connector: | 0.5 m                        |
| Diameter:                     | 62 mm                        |
| Height:                       | 21 mm (without screw thread) |