

# Navilock NL-8338P M8 Serial PPS Multi GNSS Receiver u-blox 8 0.25 m

## Description

The M8 serial multi GNSS Receiver based on u-blox 8 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.



**Item no. 60332**

EAN: 4043619603329

Country of origin: Taiwan,  
Republic of China

Package: Retail Box

## Specification

- Connector: 1 x M8 Navilock waterproof connecting plug (USB or serial cable are optional available)
- Chipset: u-blox 8 UBX-M8030-KT
- 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
- Auto Baud Rate up to 115200 bps
- PPS signal on pin 6 (LVTTTL 3.3 V)
- Update rate:
  - single GNSS: 18 Hz (e.g. GPS solo)
  - multi GNSS: 10 Hz (e.g. GPS+GLONASS)
- Sensibility max. -167 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. 0.25 m
  - Dimensions (Ø x H without screw thread): ca. 62 mm x 21 mm
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## System requirements

- Windows Vista/7/8/8.1/10, Linux Kernel 2.6, Mac OS X
  - 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

## General

Protection category:	IPX7
Suitable for outdoor:	yes

## Interface

connector:	1 x M8 male
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## Technical characteristics

Operating voltage:	5 V DC
Chipset:	u-blox M8030-KT
Frequency range:	BEIDOU: B1, 1561.0980 MHz GALILEO: L1 1575.4200 MHz GLONASS: G1, 1.6020000 (k x 0.5625) GHz GPS: L1, 1,5754200 GHz QZSS L1, 1575.4200 MHz
Operating temperature:	-20 °C ~ 60 °C
Current consumption:	45 mA
Sensibility:	-165 dBm
Update rate:	1 - 18 Hz

## Physical characteristics

Housing colour:	black
Cable length incl. connector:	0.25 m
Diameter:	62 mm
Height:	21 mm (without screw thread)