

# Navilock NL-82052RS Multi GNSS UDR u-blox NEO-M8U PPS engine module

## Description

GNSS modules are fully assembled receiver with patch antenna, backup battery etc .. This version uses RS-232. Several integrated sensors allow position determination without GNSS signals.

## Note

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



**Item no. 62764**

EAN: 4043619627646

Country of origin: Taiwan,  
Republic of China

Package: Poly bag

## Specification

- Connector: WTB serial RS-232
- u-blox NEO-M8U module
- Frequency:
  - GPS: L1, 1575.4200 MHz
  - GLONASS: L1, 1602.5625 ~ 1615.5000 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
- TTL 3.3 V PPS signal on Pin 6
- Auto Baud Rate up to 115200 bps
- Update rate: up to 20 Hz
- Sensibility max.: -160 dBm
- LED-indicator for GPS status
- Operating temperature:
  - 40 °C ~ 85 °C without battery
  - 20 °C ~ 60 °C with battery
- 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)
    - 2.0 m CEP with SBAS (Circular Error Probable)
  - Dimension (LxWxH): ca. 30.0 x 30.0 x 7.90 mm
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## System requirements

- Device with a free RS-232 connector
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## Package content

- Engine module

## Interface

connector:	1 x WTB ACES 87214 - 0600 plug
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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 -40 °C ~ 85 °C without battery
Current consumption:	45 mA
Sensitivity:	-160 dBm
Update rate:	up to 20 Hz

## Physical characteristics

Length:	30 mm
Width:	30 mm
Height:	7.9 mm