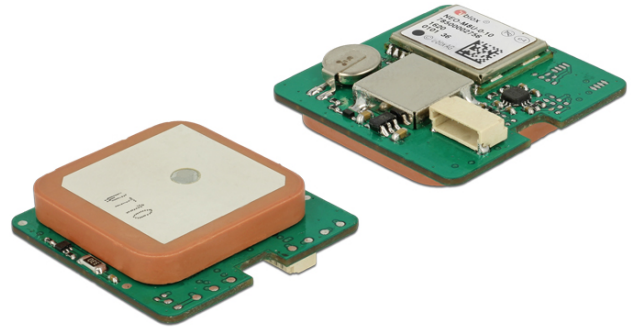


# Navilock NL-82052TTL Multi GNSS UDR u-blox NEO-M8U PPS engine module

## Description

GNSS modules are fully assembled receiver with patch antenna, backup battery etc .. This version uses TTL 3.30 V. 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!

## Specification

- Connector: WTB serial TTL
- 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
- 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 x 30 x 7.90 mm

## Item no. 62745

EAN: 4043619627455

Country of origin: Taiwan, Republic Of China

Package: Poly bag



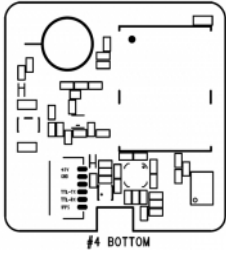
## System requirements

- Device with a free TTL 3.3 V connector

## Package content

- Engine module
- Navilock support CD

Images



Interface	
connector:	<b>standard</b> 1 x WTB ACES 87214 - 0600 plug
Technical characteristics	
Operating voltage:	<b>standard</b> 5 - 48 V DC
Chipset:	<b>standard</b> u-blox NEO-M8U
Frequency range:	<b>standard</b> BEIDOU: B1, 1561.0980 MHz GALILEO: L1 1575.4200 MHz GLONASS: G1, 1.6025625 - 1.6155000 GHz GPS: L1, 1,5754200 GHz
Operating temperature:	<b>standard</b> -20 °C ~ 60 °C -40 °C ~ 85 °C without battery
Current consumption:	<b>standard</b> 45 mA
Sensibility:	<b>standard</b> -160 dBm
Update rate:	<b>standard</b> up tp 20 Hz
Physical characteristics	
Length:	<b>standard</b> 30 mm
Width:	<b>standard</b> 30 mm
Height:	<b>standard</b> 7.9 mm