Item no.: 362087

NL-651EUSB u-blox 6

from **56,61 EUR**

Item no.: 362087
shipping weight: 0.10 kg
Manufacturer: Navilock

📄 Product Description

Engine boards are completely assembled receivers with patch antenna, back-up battery etc.. Technical expertise is required at the point of commissioning and connection.
Specification

- u-blox 6 GPS & GALILEO SuperSense® GPS chipset
- High Sensitivity (Tracking Sensitivity: -160 dBm)
- AssistNow Offline (14 days Almanac data) support
- DGPS, WAAS, EGNOS and MSAS support
- Very short TTFF (Time To First Fix) even at low signal levels
- Supports NMEA 0183 protocol
- Internal patch antenna

Specification

- Chipset: u-blox 6 GPS & GALILEO SuperSense®
- Frequency: L1, 1575.42 MHz
- C/A Code: 1.023 MHz
- Channels: 50 channels max
- Position UP-DATE Rate: max. 1-5 Hz
- Sensitivity: -160 dBm Tracking
- Sensitivity: -160 dBm Satfixing
- Sensitivity: -147 dBm Cold start
- Position Accuracy1 2.5m CEP2, 5.0m SEP3 or SBAS 2.0m CEP,
- 3.0m SEP, DGPS RTCM 2.3
- Time: 1us clocked to GPS time
- Internal CMOS Multi-Purpose Flash 256K x16

Date

- Default setting: WGS-84

Time

- New acquisition: 1 sec., average
- Hot start: 3.5 sec., average
- Warm start: 25 sec., average
- Cold start: 30 sec., average

Dynamic conditions

- Receiving altitude: Max. 18,000 metres (60,000 feet)
- Reception speed: Max. 515 metres /second (1000 knots)
- Acceleration: Max. 4g
- Vibration: Max. 20m/sec × 3

Power supply

- Power supply: 5V DC
- Power consumption: 40mA - 120mA

Interface features

- USB 1.1
- Baud rate: Auto
- Output protocol: NMEA 0183 GGA, GSA, GSV, RMC, VTG
- Optional: UBX (Position Data, Satellite Date, Time of the Day)
- Windows CE (ARM Based), XP, Vista, 7 also 7 Starter, 8/8.1 and Linux
- (Kernel 2.4.x or 2.6.x)
- Not suitable for WINDOWS 98/98SE/Me or MAC OS

Physical characteristics

- Dimensions: 30 mm x 30 mm x 7.9 mm
- Cable length: none, optional connection cable 95843 required (10cm to open cable ends)
- Operating temperature range: -40°C ~ 85°C without battery-20°C ~ 60°C with battery

AssistNow is a standard A-GPS service that enhances GPS receiver performance by calculating a position almost instantly, even in difficult reception conditions. A-GPS enhances all GPS-enabled applications, especially those that require constant operational readiness, such as fleet management applications or GPS-enabled handheld devices whose users want instant access to location-based services, regardless of reception conditions.

Without A-GPS, a GPS receiver must locate at least 4 satellites in direct line of sight and then download their location data. This process takes 30 seconds under optimal reception conditions and can take much longer under poorer conditions, such as in an urban environment or inside a building where GPS reception is weaker. AssistNow sends the data immediately to the GPS receiver, enabling fast position calculation.

The offline service provides assist data that is valid for up to 14 days. Users can therefore benefit from increased satellite acquisition performance for longer periods of time and only need an occasional internet connection to update the support data.

1 Depends on accuracy of correction data of DGPS or SBAS service.
2 CEP = Circular Error Probability: The radius of a horizontal circle, centred at the antenna's true position, containing 50% of the fixes.
3 SEP = Spherical Error Probability. The radius of the sphere, centered at the true position, contains 50% of the fixes.Package contents

- GPS module
- CD-ROM

Packaging

- Poly Bag

🖹 Specifications

**Scan this QR code to
view the product**
All details, up-to-date
prices and availability