

Item no.: 372998

## 61844 - Navilock NL-650ERS u-blox 6 GPS Engine Board

from **64,90 EUR**

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shipping weight: 0.10 kg  
Manufacturer: Delock



### Product Description

GPS modules, unlike engine boards, are fully assembled receivers with patch antenna, backup battery, etc. Technical expertise is required at the point of commissioning and connection.

Specification- u-blox 6 GPS & GALILEO SuperSense® GPS chipset- High Sensitive (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 level- Supports NMEA 0183 protocol- Internal patch antenna- Internal USB to RS232 converter  
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 resp. SBAS 2.0m CEP,3.0m SEP, DGPS RTCM 2.3- Time: 1us clocked to GPS time- Internal CMOS Multi-Purpose Flash 256K x16Datum- Default setting: WGS-84Time- New acquisition: 1 sec, average- Hot start: 3.5 sec., average- Warm start: 25 sec., average- Cold start: 30 sec., averageDynamic conditions- Reception altitude: Max. 18,000 metres (60,000 feet)- Reception speed: Max. 515 metres /second (1000 knots)- Acceleration: Max. 4g- Vibration: Max. 20m/sec x 3Power supply- Power connection: 5V DC- Current consumption: approx. 80mAInterface properties- Serial RS232 level- Baud rate: 38,400 bps- Output protocol: NMEA 0183 GGA, GSA, GSV, RMC, VTG- Optional: UBX (Position Data, Satellite Date, Time of the Day)Physical properties- 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 batteryAssistNow is a standard A-GPS service that enhances the performance of the GPS receiver 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 immediate 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 in optimal reception conditions and can take much longer in poorer conditions, e.g. in an urban environment or inside a building where GPS reception is weaker. AssistNow sends the data directly to the GPS receiver, enabling a quick position calculation. The offline service provides assistance 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 occasionally need an 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

