



34.95 EUR  
incl. 19% VAT, plus [shipping](#)

- Sirf 3 chipset !
- NL-302U
- Waterproof !

The NL-302U GPS receiver features the new chipset SIRF3, is waterproof and has a magnetic and rugged case bottom. The integrated highly sensitive GPS Aerial gives you a maximum reception quality.

The connection cable can be enlarged up to 5 meters for optimal placement of the receiver. The integrated USB-to-Serial bridge eases usage. For installation you only need a small USB driver.

## Technical details

### General specifications

- SiRF Star III High Performance GPS Chipset
- High Sensitiv (Tracking sensivity: -159 dBm)
- Very short TTFF (Time To First Fix) even with low signal
- Support of NMEA 0183 protocol
- Internal memory for faster re-tracking of position
- Internal patch aerial
- Magnetical case bottom
- Internal USB to Serial bridge
- Waterproof and rugged casing
- LED for GPS Status

### Specifications

- Chipset: SiRF Star III
- Frequency: L1, 1575.42 MHz
- C/A Code: 1.023 MHz
- Channels: 20 Kanäle max.
- Sensivity: -159 dBm
- Accuracy 10 Meter, 2D RMS
- Acceleration: 0.1 m/s
- Time: 1 us to GPS time

### Date

- Standard setting: WGS-84

### Positioning times

- Re-Tracking: 0.1 sek., average
- Hot start: 1 sek., average
- Warm start: 38 sek., average
- Cold start: 42 sek., average

### Dynamical environments

- Reception height: Max. 18,000 Meters (60,000 Feet)
- Reception speed: Max. 515 Meter /second (1000 Knoten)
- Acceleration: Max. 4g
- Shock: Max. 20m/Sek x 3

### Power supply

- Power connection: 5V DC by USB port
- Power consumption: approx. 80mA

### Interface

- Protocol type: TTL
- Output voltage: 0V~2.85V
- Baudrate: 4,800 bps
- Output protocol: NMEA 0183 GGA, GSA, GSV, RMC, GLL, opt. VTG

### Physical

- Dimensions: 65mm x 45mm x22mm
- Cable length: 1,5 Meters
- Operation temperature range: -40°C to +85°C