

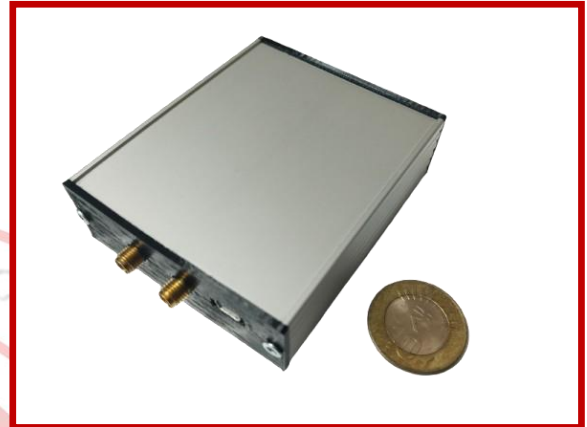


LAKSHYA N101/301-B1

Compact High-precision, Multiband RTK Receiver Board

Based on uBlox F9P high-precision GNSS module
(can be used both as Base and Rover)

- **Supported Constellations:**
 - GPS L1/L5, GLONASS, Galileo, Beidou, QZSS/SBAS (User selectable, 4 concurrent GNSS)
- **Operating voltage :** 2.7 V – 3.6 V DC, 5V (USB)
- **Accuracy:**
 - Position : RTK 0.01 m + 1 ppm CEP
 - Update Rate: RTK upto 20 Hz
 - Convergence Time < RT 10 sec
- **Dimension :** 80mm x 60mm (N101-B1)
 - Customizable as required
 - **Rugged, premium Anodized Aluminum Casing (N301-B1) (80 mm x 72 mm x 20 mm)**
- **I/O:**
 - Antenna Input : SMA
 - USB
 - UART data out : 11 pin JST connector (I2C, SPI – user configurable)
 - Timepulse output : SMA (**optional, Configurable: 0.25 Hz to 10 MHz**)
- **Protocol :** NMEA, UBX binary, RTCM v. 3.4, SPARTN v. 2.0.1
- **Oscillator:** TCXO
- **Startup Time:**
 - Cold Start : <24 s, Reacquisition: <2s
- **Sensitivity:**
 - Cold Start : -148 dBm, Hot starts -157 dBm, Reacquisition -160 dBm, Tracking & Navigation: -167 dBm
- **Operating and Storage Temperature :** -40°C ~ +85°C
- **Assistance:** AssistNow™ Online, OMA SUPL & 3GPP compliant
- **Anti-jamming:** Active CW detection and removal Onboard band pass filter
- **Anti-spoofing:** Advanced anti-spoofing algorithms and OSNMA
- **Other features:** Programmable (flash), Data logging , Carrier phase output, Survey-in and fixed mode



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