N3 IMU GNSS Receiver



N3 IMU GNSS Receiver (??????????? / ?????????? GPS) Featuring 1198 channels of tracking all running and planned constellations, enhanced UHF for up to 15km working range, improved high precision IMU, low power consumption and over 24 hours working time, the N3 receiver making it work-efficient and energy-saving for your survey tasks.

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Online customer service

Features

Support GPS, BDS-2, BDS-3, GLONASS, Galileo, QZSS and SBAS tracking.

25 hours long-lasting batteries.

Up to 15km work range with 2W power consumption with enhanced UHF

IP67 water and dust proof level for harsh environments.

Improved IMU of simpler initialization and high accuracy.

Industry-leading 1.7W low power consumption.

Powerful web UI to easily download static data & upgrade firmware.

Support WiFi/4G/Bluetooth/UHF transmission.

Channels: 1198

Satellite tracking: - GPS: L1 C/A, L2C, L2P, L5

- BeiDou: B1, B2, B3

- BeiDou Global Signal: B1C, B2a

- GLONASS: L1 C/A, L1P, L2 C/A, L2P

- Galileo: E1, E5a, E5b

- QZSS: L1C, L2, L5, L1C/A

- IRNSS

- L-Band

- SBAS: WAAS, EGNOS, MSAS, GAGAN, SDCM

Static and Fast Static: ess than 10 s

Vertical: 5 mm + 0.5 ppm

Real Time Kinematic:

Horizontal: 8 mm+1 ppm

Vertical: 15 mm+ 1 ppm

Signal re-acquisition: < 1.5 s

Initialization time: < 10 s

1 Serial port (7 pin Lemo)

Baud rates up to 921,600 bps

Enhanced UHF modem

- Full frequency range: 410-470 MHz

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- Transmit power: 0.5-2 W adjustable

- Range: 15 km

WIFI/4G modem

- 4G Bands: 800/900/1800/2100/2600 MHz

- 3G Bands: 900/2100 MHz

- 2G Bands: 900/1800 MHz

- Support GSM, Point to Point/Points and NTRIP

Bluetooth

V 4.0 protocol, compatible with Windows OS and Android OS

5 LEDs

Indicating Satellites Tracking, RTK Corrections Data, GPRS Status and Power

Position data output rates

1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz

Calibration-free IMU

Up to 60°tilt with 2 cm accuracy

Waterproof and dustproof:

IP67