

NANO 7 GNSS

The Nano 7 is the latest portable multi-functional GNSS receiver, from GeoMeasure which supports UHF, network and tilt RTK measurements. It is extremely light-weight, packaging high-end RTK performance in a compact hardened magnesium alloy structure. Compatible with MicroSurvey's FieldGenius, this is a fully featured survey and GIS receiver.



FEATURES



Linux Intelligent System

Powered by the Qualcomm Cortex-A7 and Linux, the Nano 7 brings efficient computing and unlimited expansion of product functions to users.



Multi-Constellation Support

With its 1408 channels, the Nano 7 provides excellent real-time solutions even in difficult environments. All GNSS constellations, GPS, GLONASS, BDS, Galileo, QZSS, SBAS and IRNSS are included.



Tilt Measurement

The Nano 7 has an integrated IMU tilt sensor that allows for up to 60° of tilt. Get shots in spots you never thought possible.



Integrated Wifi and Bluetooth

The new four-in-one antenna integrates GNSS, Wifi, Bluetooth and Cell, eliminating the need for an external antenna.



4G Cell Modem

The Nano 7 has an internal 4G modem that operates with more cellular network signals. Getting lightning fast connection to all available NTRIP networks.



Long-Lasting Batteries

Built with high-capacity internal lithium ion batteries, the Nano 7 is capable of continuously working for up to 16 hours.



Peace of Mind

The Nano 7 is built with an IP68 ingress rating against water and dust. With a solid magnesium case, the Nano 7 can withstand 1.5m pole drops without any issues.



Nano 7 GNSS

Professional Grade Positioning

Signal Tracking

Receiver Type: Multi-Frequency GPS, GLONASS, BeiDou, Galileo, QZSS, IRNSS and SBAS

Signals Received: GPS - L1CA/L1C/L2P/L2C/L5
GLONASS - G1/G2/G3
BeiDou - B1i/B2i/B3i/B1C/B2A/B2B
GALILEO - E1/E5A/E5B/E6
QZSS - L1/L2/L5/
IRNSS - L5
SBAS - L1

Data Update Rate: Selectable from 1, 2, and 5 Hz

Performance Specifications

Signal Reacquisition: ≤ 1 s

Cold Start: ≤ 30 s

Hot Start: ≤ 15 s

RTK Initialization Time: <10 s

Initialization Reliability: ≥ 99 %

Accuracy

Single Baseline RTK: 8 mm + 1 ppm Horizontal
15 mm + 1 ppm Vertical

Static and Fast Static: 2.5 mm + 0.5 ppm Horizontal
5 mm + 0.5 ppm Vertical

Standalone: 30 cm Horizontal
60 cm Vertical

Electrical Specification

Voltage: 5V

Charging Time: <5 h

Working Time: ≥ 16 Hours

Interface

Serial Port: Supports Serial Communication

USB: Type C

Range Pole Interface: Standard 5/8" UNC Female Thread

UHF Port: SMA

Communication

Bluetooth 5.0: Dual-Mode BT

UHF Frequency: 410 - 470 Mhz, Transmit and Receive

Transmit Power: 0.5 W, 1.5 W Adjustable

Over Air-Baud Rate: 9600 / 19200 Adjustable

Range: 15 km Maximum Distance

Environmental

Working Temperature: - 20 °C to + 60 °C

Storage Temperature: - 40 °C to + 85 °C

Humidity: 100 % Non-Condensing

Ingress Rating: IP68

Shock: 1.5 m Pole Drop on Concrete

Physical

Housing Material: Magnesium Aluminum Alloy

Dimension: 147.9 mm x 68 mm

Weight: 740 g