

# 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.



HEIGHT	LENGTH	WEIGHT
68mm	147.9mm	0.74kg

## 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.



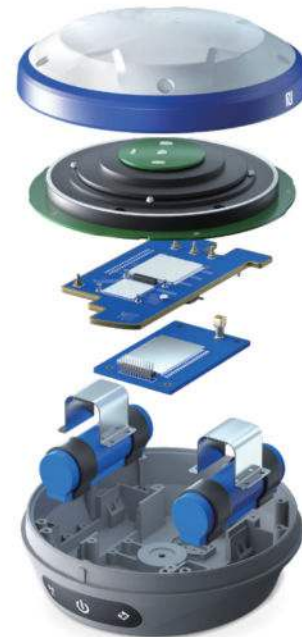
### Long-Lasting Batteries

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