



GPS GLOBAL SOLUTIONS®

NANO GGS IMU

SECOND RECEIVER IMU
POCKET SIZE UNDER GGS BRAND

GPS//GL//BDS//GAL

1408 CHANNELS

IP67//2M DROP

8MM+1 PPM
15MM+1 PPM



IMU

UP TO 60 DEG

>14 H BATTERY

0.55 KG

ONLY 10 CM

* THE SET INCLUDED:

- NANO GGS RECEIVER
- RUGGED CONTROLLER MIL-STD 883C IP69K 15600MAH/UP TO 40H
- MINIATURIZED HARD CASE
- FIELD ANDROID APPLICATION WITH PERMANENT LICENCE
- TELESCOPIC POLE WITH CASE

2 YEARS WARRANTY

ONLINE SHOP/STATIONARY/SERVICE CENTER/AUTHORIZED DEALER

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POCKET SIZE GNSS RTK RECEIVER WITH IMU & UHF RADIO

NANO GGS IMU is miniaturized pocket size GNSS receiver under GGS brand. His Weight is only 0,5kg and is very small size, only 10cm. Is a fully functional geodetic receiver, which allow achieve centimeter accuracy in real time. Equipped in GNSS board 1408 channels, very popular at many brands on the market (including brands from EU) also IMU without calibration and build in UHF radio. Is working with all available satellites systems like: GPS, GLONASS, GALILEO, BEIDOU.



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SPECIFICATION

Performance specification

Satellite signals tracked simultaneously	GPS: L1 C/A, L2C, L2P, L5
	GLONASS: L1, L2
	BEIDOU: B1, B2, B3, B1C, B2a, B2b
	GALILEO: E1/ESa/ESb/E6
	QZSS: L1/L2/L5/L6
Channels	SBAS: WAAS, EGNOS, MSAS, GAGAN, SDCM
	1408 channels
	Cold start <60 s
Hot start <15 s	
Positioning output rate	1Hz-50Hz
Signal Reacquisition	<1s
RTK Initialization time	<5s
Initialization Reliability	>99,99%
Time accuracy	20 ns

Positioning

Static GNSS surveying	Horizontal: ±(2.5mm + 0.5ppm)
	Vertical: ±(5mm + 0.5ppm)
RTK Surveying	Horizontal: ±(8mm + 1.0ppm)
	Vertical: ±(15mm + 1.0ppm)

HARDWARE

PHYSICAL

Material	Magnesium alloy
Dimensions	100x100x73mm
weight	0.55kg
Operating temperature	-40°C to +75°C
Storage temperature	-55°C to +85°C
Protection IP	IP67 dust proof, protected from 30min immersion to depth of 1m
Shock	IK08, Survive 2 m drop onto the concrete
Vibration	MIL-STD-810G
Humidity	100%, condensing

IMU

IMU	Supported, 4D IMU initialization in 3 seconds
IMU update rate	400Hz
IMU accuracy	< 2.5cm within 30°
IMU tilt compensation	0-60°

ELECTRYCAL

Power:	9-24V DC external power
Support USB	Type-C fast charging
Internal	6800mAh lithium-ion battery

Battery Life	Rover Mode:	14 hours
	Static Mode:	20 hours

Communication & Data Storage

I/O interface	USB TypeC (support charging, data download)
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Bluetooth

Fully integrated Bluetooth	V4.0, range ≤ 50m
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Data format

Differential data	RTCM2.X, RTCM3.X
GPS output data format	NMEA 0183s RTK, Binary code
static data format	RINEX

storage

8GB internal memory, supports cyclic storage; with ability to collect over one year raw observation based on 5 seconds interval

Others

System integration

OS system	Intelligent LINUX operating system
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Supported controllers	All android devices with supported software
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Design

Key	Double button
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Indicator	Power indicator, data link indicator, satellite indicator, Bluetooth indicator
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