



Nano GPS Backpack

Handcrafted GPS Devices
Starting at 5 grams

Building small, lightweight products
incorporating the best technology
and battery life is our specialty.



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NANO GPS BACKPACK

The lightweight (from 5 grams total weight) Nano GPS backpack data loggers manufactured by Telemetry Solutions are sold worldwide. They are available in 12 standard configurations and numerous custom configurations to meet your wildlife tracking needs.

GPS TRACKING FOR BIRDS – OR TURTLES – ANYTHING REALLY SMALL

This GPS device can be configured in many different ways when you absolutely need GPS tracking; for birds, herps and very small mammals. This device has a temperature sensor, an accelerometer a GPS receiver. And most importantly it has a long range radio transceiver to send you the GPS data. The data are collected by a small, fully automatic device that we call a base station.

Telemetry Solutions products come with much easier and better data download than previous systems. No yagi antenna nor laptop required. The base station communicates automatically with any GPS device that has been assigned to it. As long as the base station and the GPS device are within range of each other and the GPS has new GPS data to send, they will communicate. The data communication range is up to 20 km. (In the field, you may experience more or less range depending upon circumstances.)

Technical features

The Nano series data loggers utilize the world's smallest fully integrated, highly sensitive GNSS module. They also include a long range radio transceiver for communication (data transfer) to another transceiver at distances as great as 20 kilometers. The other transceiver can be hand held, stationary, and airborne in a drone or piloted aircraft or carried on the back of another animal in the form of a GPS backpack. The data logger can be equipped with a VHF radio transmitter upon request. Minimum operational temperature varies with battery technology, either -40°C or -15°C.

Also includes:

- Temperature sensor
- 3-axis accelerometer
- Gyro meter
- Blue Tooth
- On/off switch



Features

S=Standard, O=Option

This product

	NANO	MICRO	SMALL	MEDIUM
Weight Range	5g-20g	6g-50g	20g-100g	130g-250g
Data Recovery Method	UHF Wireless	UHF Wireless	UHF Wireless	Satellite
Data Transfer Range	up to 20km	up to 50m	up to 20km	global
Drone Data Downloading	S	S	S	N/A
Base Station Battery Life	2 days	5 days	2 days	N/A
Base Station External Power	S	N/A	S	N/A
Change GPS Schedule in Field	S	S	S	S
Drop Off	N/A	O	O	O
VHF Transmitter	O	O	S	S
Smart GPS	S	S	S	S
Activity Logger	S	S	S	S
Factory Sealed	S	S	S	S
Best in Habitat Type	Open-Light	Any	Any	Any
GPS Precision Control	S	S	S	S
Rechargeable	O	O	O	O
Bluetooth	S	S	S	S
Temperature Sensor	S	S	X	S
Accelerometer	S	S	S	S
Light Sensor	N/A	O	N/A	N/A
Collar	S	S	S	S
Backpack	S	S	S	S
Implant	N/A	S	S	N/A
Custom Design	S	S	S	S
DIY Kits Available	S	S	N/A	N/A
Discount Price Eligible	S	S	S	S
Refurbishment Available	S	S	S	S
On-off switch	S	S	S	S

Battery Life Information

Minimum Weight (grams)	Approx. Dimensions (mm)	Number of GPS per day	Estimated Battery Life (days)
5.0	28 x 14 x 8	2	36
6.5	36 x 14 x 8	2	54
8.5	36 x 14 x 11	2	90
10.0	34 x 22 x 10	2	104
11.5	44 x 19 x 10	2	159
16.0	27 x 16 x 20	2	255

*Battery life estimated assuming 20°C and GPS on time 60 seconds. GPS may be scheduled in any way, these are examples only