

SHOUT nano

Handheld tracker/messaging device

The SHOUT nano is a handheld, global, two-way satellite messaging and personal tracking device. It utilizes Iridium's short burst data (SBD) service to provide location information determined by a GPS receiver, two-way inbound and outbound status, text messaging, and emergency/alert notifications. The nano measures 4.0" x 2.2" x 0.8" and weighs ~6.5 ounces.

The nano is designed with ultra-low power consumption electronics drawing less than 35 μ A during sleep. With an internal 1.95 A-Hr rechargeable Li-Ion battery, it can send a position report every hour for up to two months (about 1,200 reports). The nano is equipped with a high resolution color LCD and on-screen keyboards supporting transmission of free-text, canned messages and a combination of free-text and canned messages. The menu options are displayed as icons for quick access. The device can periodically wake up from sleep to send its position report to a command center. A 911 button is used for immediate emergency/alert notifications. Data are packed in either standard or 256-bit AES encrypted format. Data can also be sent in encrypted PECOS formats to include Brevity codes.

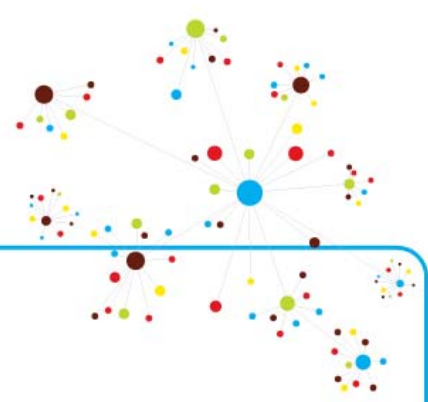


The nano offers a variety of services including:

- Normal Tracking – programmed to automatically wake up and send a position report at a set interval ranging from continuous to once every seven days.
- Emergency Alert – sends alerts to a designated monitoring center using a 911 button. The monitoring center and the user can then communicate to define specifics of the emergency.
- Free-Text Messaging – sends free-text via three different sets of on-screen keyboards.
- Canned Text Messaging – sends canned (pre-defined) messages in short codes to save bandwidth instead of the entire message body.
- Waypoint Tracking – send and/or saves waypoints (interested landmarks) for later retrieval.
- Check-In – allows a quick check-in message to be sent using a single soft key.

Space for everyone





SHOUT nano Features

- Pocket size, self-contained satellite tracker
- Ultra-low power consumption
- AES 256-bit encryption both transmit/receive
- Two-way communications
- Real-time reporting
- Truly global coverage

SHOUT nano Specifications

Mechanical

- Dimensions: 4.0" x 2.2" x 0.8"
- Weight: ~6.5 Oz
- I/O interface: USB
- Cooling: Convection
- Enclosure: Hard-Anodized Aluminum

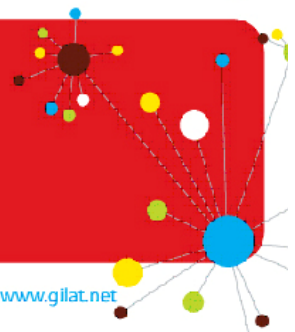
Electrical

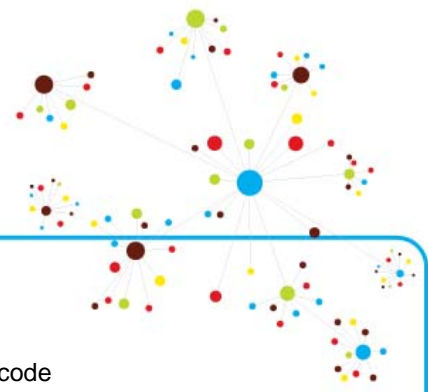
- Input Voltage Range: 2.7VDC to 5.5VDC
- Input Nominal Voltage: 4.0VDC
- Power consumption during standby: Less than 35 μ A @ 5.0VDC
- Power input Type: External DC power on internal battery

Iridium RF Board

- Operating Frequency: 1616 to 1626.5MHz
- Link Margin Downlink: 13 dB average
- Link Margin Uplink: 7dB average
- Average Power Transition: 1.0 W

Space for everyone





GPS Receiver

- Receiver Type: 1575.42 MHz (L1), 50-channel, C/A code
- Accuracy: 2.5 m CEP
- Update Rate: 4 Hz
- Start-up Times: < 1 sec hot start, 29 sec warm start and 20 sec cold start
- Sensitivity: -160 dBm

Environmental

- Operating Temperature: -40°F to +185°F (-40°C to +85°C)
- Operating Humidity: <75% RH

Space for everyone

