

# SHOUT tsA

## Handheld Tracker with GPS-Independent Positioning



### Gateways

DoD & Commercial Iridium



### Canned Messages

Uses short codes for quick response & to save bandwidth



### Alternative-RF PNT

Positioning Independent of GPS

## Multi-Source Assured PNT Handheld

The SHOUT tsA is a handheld, global, two-way satellite messaging and personal tracking device capable of obtaining Position Location Information (PLI) in the presence of enemy and environmental threats to GPS signal. It contains an Alt-RF receiver, high-accuracy L1 GNSS receiver, USB interface, and several low power micro-controllers. Maximize mission-life with its internal 3.6 A-Hr rechargeable Li-Ion battery; a 67% capacity increase from the SHOUT ts. Includes NAL SatTerm PC software for users to setup custom operating parameters, geofences, contacts, and canned messages.

### Key Features

- Body-Worn Tracker & Messaging
- Commercial GNSS & Alt-RF PNT
- Guarded 911 Alert Switch
- High-Resolution Touchscreen
- Messaging
  - Free text
  - Canned messages
  - Combination of Both
- 256-bit AES Encryption
- Real-Time, Pole-to-Pole Coverage
- Integrated Motion Sensor
- 72-Channel GPS Receiver with  
-160 dBm Sensitivity
- Compatible Airtime Service(s): SBD

### Use Cases

- **Normal Tracking:** Programmed to wake up automatically and send a position report at an interval ranging from once per minute to once per day.
- **Emergency Alert:** Send alerts to designated monitoring center using the 911 button. The monitoring center and user can then communicate to define further specifics for the emergency.
- **Messaging:** Send free-text via four sets of different on-screen keyboards. Send canned messages in short codes for quick response or to save bandwidth. Send quick check-in message using a single soft key.
- **Waypoint Tracking:** Send and / or save waypoints for later retrieval.

## SHOUT tsA





# What's In the Box?

- SHOUT tsA
- Power Adapter
- USB Charging Cable

## Device Specifications

Weight:	~15 oz (0.42 kg)
Dimensions:	4.76”L (122 mm) x 2.9”W (74 mm) x 1.2”D (31 mm)
I/O Interface:	USB-C
Cooling:	Convection Cooling
Enclosure:	Hard, Anodized Aluminum (EMI shielded)
Input Voltage Range:	2.7VDC to 5.5VDC
Battery:	3.6A-Hr Rechargeable Lithium Ion
Operating Temperature:	–4°F to +140°F (–20°C to +60°C)
Operating Humidity:	< 75% RH

## Iridium Transceiver

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

## GPS Receiver

Receiver Type:	1575.42 MHz (L1), 72 channel, C/A code
Accuracy:	2.5 m CEP
Update Rate:	4 Hz
Start-up Times:	< 1 sec hot start, 29 sec warm start, & 29 sec cold start
Sensitivity:	–160 dBm

## Alt-RF Receiver

Receiver Type:	L-Band
Static Position Accuracy:	+/- 100m with open sky view
Dynamic Position Accuracy:	+/- 100m with open sky view