

SHOUT 3G HANDHELD IRIIDIUM® / GSM / 3G TRACKER

DEVICE FEATURES

- ✓ Low-cost, body-worn tracker and messaging device
- ✓ Programmed for either DoD or Commercial Iridium Gateway
- ✓ Ultra-low power consumption
- ✓ Automatic location reports (>1600 reports)
- ✓ Guarded 911 alert switch
- ✓ Resistive touchscreen
- ✓ Free-text, canned messages, or combined free-text and canned messages
- ✓ Data logging (waypoints and tracking reports)
- ✓ 10-byte/30-byte formats
- ✓ 256-bit AES encryption
- ✓ Real-time, pole-to-pole coverage
- ✓ Weighs ~8.6 ounces
- ✓ Volume of 4.97" x 2.51" x 0.88"
- ✓ USB interface
- ✓ Internal rechargeable battery using AC adapter, USB port, or solar charger
- ✓ Integrated motion sensor
- ✓ 50-channel GPS receiver with -160 dBm sensitivity
- ✓ Compatible Airtime Service(s): SBD, SMS

IRIDIUM® HANDHELD TRACKER
POWERED by the IRIIDIUM NETWORK



SHOUT 3G HANDHELD IRIIDIUM® / GSM / 3G TRACKER

The SHOUT 3G is a handheld satellite/cellular messaging and personal tracking device. It is designed to operate in single-mode with either the Iridium satellite network or any cellular network including AT&T® and T-Mobile®. It can also operate in Iridium/cellular dual-mode. The SHOUT 3G can transmit location information determined by a highly sensitive GPS receiver, inbound and outbound status, text messaging, and emergency/alert notifications.

The SHOUT 3G significantly improves service reliability over existing tracking products by allowing two-way communications and confirmation of the nature of the distress to first responders. This capability reduces the potential for false alerts and helps identify the nature of the emergency so that appropriate assets can be deployed reducing search and rescue costs. The SHOUT 3G provides communication feedback to the user to assist in rescue efforts. When using the Iridium link, the SHOUT 3G protocol is 100% backward compatible with the SHOUT nano, SHOUT ts and the SHOUT gsm (now in EOL status) handheld tracking devices.

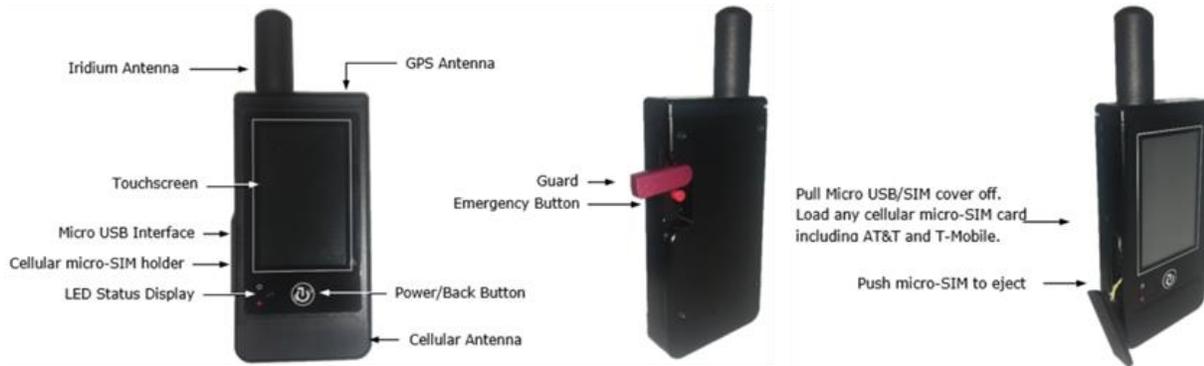
The SHOUT 3G is designed with ultra-low power consumption electronics, drawing less than 70µA during sleep. With an internal 2.15 A-Hr rechargeable Li-Ion battery and depending on the environmental conditions, it can send a position report every ten minutes for more than ten days (more than 1,600 reports). The SHOUT 3G is equipped with a high resolution color touchscreen and on-screen keyboards allowing transmission of free-text, canned messages and a combination of free-text and canned messages. 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 is packaged in either standard or 256-bit AES encrypted format.

The SHOUT 3G 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 further specifics of the emergency.
- Free-Text Messaging — sends free-text via four different sets of on-screen keyboards.
- Canned Text Messaging — sends canned messages in short codes to save bandwidth instead of the entire message body.
- Waypoint Tracking — sends and/or saves waypoints for later retrieval.
- Check-In — allows a quick check-in message to be sent using a single soft key.
- Man Down — integrated motion sensor used to activate man down situations.
- Geofencing — can be activated based on conditions set by fences defined as polygons (50 fences with up to 50 points each fence.)
- Data Logger — allows programming to store up to 4,000 positions for later retrieval.



SHOUT 3G HANDHELD IRIDIUM® / GSM / 3G TRACKER



Specifications

Mechanical

Dimensions:	4.97" L x 2.51" W x 0.88" D
Weight:	~8.6 ounces
Connector:	Micro USB, Micro SIM reader
Cooling:	Convection
Enclosure:	Hard-Anodized Aluminum (EMI Shielded)

Electrical

USB Input Voltage:	5.0VDC
MAX USB Current Sink:	1.5A @ 5.0VDC
Battery:	2.15 A-Hr rechargeable Lithium-Ion
Sleep Mode:	< 35µA in between reports
Transmission Mode:	1.12mA-Hr per report

Iridium Transceiver

Operating Frequency:	1616 to 1626 MHz
Duplexing Method:	TDD
Multiplexing Method:	TDMA/FDMA
Link Margin Downlink:	13 dB average
Link Margin Uplink:	7 dB average

GPS Receiver

Receiver Type:	MAX-6Q (L1), 50-channel, C/A code
Accuracy:	2.5 m CEP
Update Rate:	5 Hz
Start-up Times:	< 1 sec hot start, 29 sec warm start, and 26 sec cold start
Sensitivity:	-160 dBm

Cellular Transceiver

Receiver Type:	u-blox LISA-u230, 3.75G
Input/Output Impedance:	50 Ω
Supported Bands:	UPTS/HSPA: 2100, 1900, 1700, 900, 850, 800 MHz GSM/GPRS/EDGE: quad band – 850/900/1800/1900 MHz

Environmental

Operating Temperature:	-4°F to +140°F (-20°C to +60°C)
Charge Temperature:	+32°F to +113°F (0°C to +45°C)
Operating Humidity:	< 75% RH