



## The RockSTAR two-way messenger is a truly global communication device and tracking system.

It is a lightweight, rugged handheld device which uses the Iridium satellite network to transmit your messages, and your location, from anywhere in the world.

### Features

- ✓ 5-button keypad plus specific 'alert' button
- ✓ Bright OLED screen for information display
- ✓ Full 2-way communication system
- ✓ Over-the-air reconfiguration of key parameters
- ✓ USB connection for charging and for data transfer
- ✓ Truly Global Operation, using the Iridium satellite network
- ✓ Long battery life (over 2500 transmissions on a single charge)

### Pricing Information

**RockSTAR Device Costs** **\$995.00**

#### Usage Costs

Item	Precio
Monthly device connection fee	\$20.00
Monthly device connection fee (suspended)	\$5.00
Per message (30 bytes)	\$0.08
Per excess bytes (per byte in text messages over 30 bytes long)	\$0.0027

Typical fees shown, other fees may apply.  
 All prices are in US dollars and excludes sales and service taxes.  
 Provision of services is subject to TracPlus terms and conditions.  
 Services are charged in arrears, credit applications may be required at TracPlus discretion.

Learn more at [www.tracplus.com](http://www.tracplus.com)

## Key Functionality

Coupled with our intuitive desktop, web and mobile mapping:

**Position tracking** – the unit will automatically report your position at a preset time interval (e.g. every 5 minutes).

**Messaging** – using the keypad and screen, you can choose from dozens of preset messages or compose a free-text message to send to TracPlus users and e-mail addresses, from wherever you are.

**Advanced Messaging** – use your smartphone or Bluetooth enabled tablet to send more complicated free-text messages to email and mobile destinations.

**Alerting** – press the alert button on the device and a message will be sent to your In Case of Emergency contacts with your precise location.

**Advanced Alerting** – countdown timers, proximity alarms and other types of alert are available.

**Waypointing** – whilst out in the field you can use the unit to mark key points on the map, available when you next log into any of TracPlus visualisation tools.

**Encryption** – all data to and from the RockSTAR can be encrypted up to AES-256 standards.

**Multi-Language Support** – the RockSTAR can be switched between languages from the menu system.

**Manage your assets** – view and manage all of your tracking devices, including your RockSTARs, at your desk or on your iOS device.

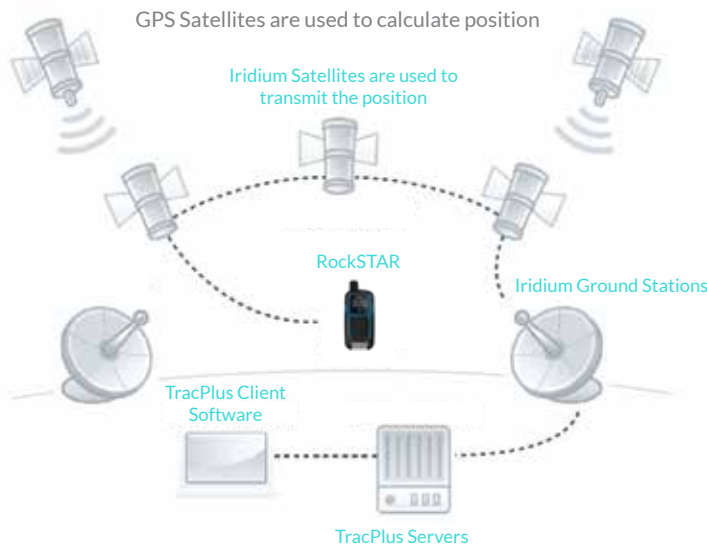
**Share with others** – quickly and easily share tracking data with others – even if they don't use TracPlus.

**No annual contracts** – simply pay for what you use.



- ✓ GPS positioning using sensitive uBlox chipset
- ✓ Accelerometer to monitor movement
- ✓ Designed for the real world with a ruggedized housing
- ✓ Two-way messaging from anywhere on Earth
- ✓ Over 2500 transmissions per charge
- ✓ Fully waterproof (IP-67)
- ✓ Recharge using standard USB cable

## How does the RockSTAR work?



The RockSTAR tracker is a rugged and fully self-contained battery operated device that works anywhere on Earth.

The tracker will wake up every so often (e.g. every 5 minutes), obtain a position using the GPS satellite network, and then transmit that position back to TracPlus using the Iridium satellite network in seconds. The message is relayed to us from Iridium, and then we visualize the positions on an easy-to-use viewer.

The RockSTAR also supports short messages, allowing for full two-way communication wherever you are, even when out of mobile network range.

Iridium is the only satellite network that allows transmission of information from any point on Earth – other networks have no coverage in the polar regions, and have intermittent or no coverage in other marine and land areas.

Iridium has 66 satellites in orbit around the Earth, allowing coverage anywhere on Earth 24 hours a day, 7 days a week. No other satellite network has truly global coverage. Messages sent via Iridium take just seconds to reach TracPlus.

Depending upon how often the RockSTAR is set to transmit, the RockSTAR can last for up to a year on an internal battery.

## Physical Properties

### Dimensions

144 x 76 x 36mm (plus antenna)

### Weight

305 grams

### Screen

Single Colour OLED 26 x 35mm

## Environmental Properties

### Storage Temperature

-40 to 85 deg C

### Operating Temperature

-30 to 60 deg C

### Operating Environment

< 75% Relative Humidity

### Testing

MIL-STD-810G for vibration, temperature and shock IP67  
 – Sealed against dust and water ingress to immersion of 1m

## Power

### Input voltage

USB (5v)

### Power Consumption

Tx/Rx: 8W Max

### Battery

LiPo cells, 5.3Ah

### Power I/O

USB

## Communication

### Iridium Modem

9602 short burst transceiver

### Iridium Antenna

Maxtena helical antenna

### GPS antenna/chip

uBlox GPS chipset

## Battery Life (examples)

- Up to 12 months transmitting once per day
- Up to 3 months transmitting once per hour
- Up to 3 weeks transmitting every 15 minutes

Actual battery life will depend on environment and usage patterns

## GPS

### GPS Receiver Type

50 channel

### Update rate

Up to 4Hz position update rate

### Time to first fix

< 1s hot, < 20s warm, < 60s cold

### GPS Sensitivity

-160dBm