



**ROCK SEVEN**  
LOCATION TECHNOLOGY



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)

### Features & Contract Options

RockSTAR Device Costs		
Professional - £499		
Corporate - £599 (adds encryption and multi-language support)		
Monthly Fees		
Professional and Corporate Models (per account)		£15.00
There is no minimum contract, simply pay per month when you need to use the RockSTAR		
Credits (used for position reports and messages)		
Bundle	Price Per Credit	Bundle Price
500 Credits	£0.09	£45.00
1000 Credits	£0.08	£80.00
2000 Credits	£0.07	£150.00
5000 Credits	£0.06	£300.00
10,000 Credits	£0.05	£500.00
20,000 Credits	£0.04	£800.00
50,000 Credits	£0.03	£1500.00
50,000+ Credits	Further discounts available...	
Volume discounts available for over 10 units - please ask for details		

1 credit is used per position report from a RockSTAR  
 1 credit is used per 50 characters in a message to/from a RockSTAR  
 Messages to mobile phones cost 1 additional credit for SMS delivery  
 Credits do not expire unless no monthly fees have been paid for 12 months  
 All prices subject to VAT and/or any local taxes applicable to your state or country.

## Key Functionality

Coupled with our intuitive web-based control panels and mapping:

- » **Position tracking** – the unit will automatically report your position at a preset time interval (e.g. every 15 minutes).
- » **Basic Messaging** – using the keypad and screen, you can choose from hundreds of preset messages to send to mobile phones 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. Update your twitter, facebook, or other social media status from anywhere in the World.
- » **Alerting** – press the alert button on the device and a message will be sent back to whoever you nominate, 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 the web-based control panel.
- » **Encryption** – All data to and from the unit can be encrypted up to AES-256 standards.
- » **Multi-Language Support** – the unit can be switched between languages from the menu system.
- » **Multiple units per account** – support for multiple RockSTAR units to report to the same web-based account for position viewing and management.
- » **Manage your fleet** – If you have multiple RockSTARs you can manage them all from our fully-featured web-based system.
- » **No annual contracts** – Simply pay 'per month, per device'. If you aren't using a particular device for a month or more, you don't need to pay any monthly fee.



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## How does the RockSTAR work?



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

The tracker will wake up every so often (e.g. every 15 minutes), obtain a position using the GPS satellite network, and then transmit that position back to Rock Seven HQ 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 web-based viewer.

The RockSTAR also allows short messages (like SMS, social media updates and short emails) to be sent using a paired Bluetooth device (such as a smartphone) and the Messenger app. This allows 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 Rock Seven HQ.

Depending how often the RockSTAR is set to transmit, they can last for up to a year on their 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

Available From:

