

## Versatile & Robust Asset Tracking & IoT Data Device

RockFLEET offers a robust asset tracking and IoT data solution which can adapt to the needs of a wide range of maritime and land based use cases. Designed for outdoor use in harsh, remote environments.

RockFLEET combines Iridium satellite and cellular connectivity into a compact IP68 rating casing which ensures that your mobile assets remain connected in the most cost efficient way anywhere on the planet.



## Key Features

- Autonomous GPS tracking
- Full two-way communication system from anywhere on Earth
- Least-cost routing option using LTE Narrowband where possible
- Optional serial integration enables connection with up to 5 switch inputs

## Physical & Environmental

<b>Size</b>	137mm diameter x 40mm height
<b>Weight</b>	0.55kg including 3m cabling
<b>Iridium Transceiver</b>	9603 Modem
<b>Patch Antenna</b>	Maxtena 1629/Optional GSM antenna
<b>Form Factor</b>	Rugged waterproof casing
<b>Operating Temperature</b>	-30 to 60 degrees C
<b>Storage Temperature</b>	-40 to 85 degrees C
<b>Operating Environment</b>	< 75% Relative Humidity
<b>IP Rating</b>	IP68 - sealed against dust and water ingress
<b>Cabling</b>	Integrated 3m cabling unless stated otherwise at purchase

## Electrical Power

*The RockFLEET is designed to be attached to mains power for most of the time.*

<b>Power Input/Output</b>	Wire positive and negative cores of cable into a power supply
<b>Voltage Required</b>	DC 8-32V
<b>Power Consumption</b>	700mA max at 12V, plus low current sleep mode (<30mA)
<b>Internal Rechargeable Battery</b>	Operate for up to 5 months without external power (depending on transmission rate and settings)

## Features

<b>Water and Dust-Proof Form Factor</b>	Rugged casing provides connectivity in all weather conditions and from remote global locations
<b>Iridium SBD connectivity</b>	Full two way communication from anywhere in the world
<b>With GSM Option</b>	RockFLEET uses GSM networks when available, switches to Iridium only when necessary Set up tracking profiles for: different position tracking rates; location within geo-fences; changes in behaviour (e.g. if external power is lost, or the device is moving)

## Communications

<b>Iridium Data Send</b>	Low latency, Short Burst Data (SBD)
<b>Data Receive</b>	340 bytes per message
<b>Send/Receive Frequency</b>	270 bytes per message
<b>Communication Options</b>	Configurable from continuous up to 24hr or Burst
<b>GPS</b>	Via Bluetooth LE and Serial (RS-232 or RS-485 or CAN)
<b>Message Delivery</b>	Select the transit frequency of position (choose GSM antenna for this option)
<b>Sending Data</b>	Messsages sent from RockFLEET can either be delivered to chosen email address, or sent to own web service as a HTTP POST
<b>Cloudloop</b>	HTTP POST made to Ground Control's web service is queued on the satellite network, and almost instantly ready for RockFLEET to download on command
	Manage and monitor your device and delivery network with our cloud-based platform, providing real-time data-driven insight

## Inputs and Sensors

<b>Optional RS-232</b>	Serial input available for M2M/IoT usage. This allows you to connect your own equipment and use the unit to send/receive your own customised data and messages
<b>Integrated Sensors</b>	GPS, accelerometer, thermometer, power loss and impact sensors

## Related Products

<b>RockBLOCK Plus</b>	Similar form factor to the RockFLEET, this is designed for remote, outdoor IoT use cases
<b>RockREMOTE Rugged</b>	Mid-range IoT device, ruggedised casing for protection in all weather conditions and environments, utilised for a wide variety of mobile and challenging environment use cases

## Supporting RockFLEET

<b>Mounting Options</b>	Two options available to purchase: Rokk or Flat Steel Mount
<b>Cable Length</b>	Available in 3, 5, 10 & 15m cable lengths, please specify at purchase
<b>Developer Documentation</b>	Use our support hub for set up and everything you need to get your project up and running <a href="https://docs.rock7.com/docs/rockfleet-overview">https://docs.rock7.com/docs/rockfleet-overview</a>