RockFLEET

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

Size	5.4" diameter x 1.6" height
Weight	1.2lbs including 9.8ft cabling
Iridium Transceiver	9603 Modem
Patch Antenna	Maxtena 1629/Optional GSM antenna
Form Factor	Rugged waterproof casing
Operating Temperature	-22 to 140 degrees Fahrenheit
Storage Temperature	-40 to 167 degrees Fahrenheit
Operating Environment	< 75% Relative Humidity
IP Rating	IP68 - sealed against dust and water ingression
Cabling	Integrated 9.8ft cabling unless stated otherwise at purchase

Electrical Power

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

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

Features

Water and Dust-Proof Form Factor	Rugged casing provides connectivity in all weather conditions and from remote global locations
Iridium SBD connectivity	Full two way communication from anywhere in the world
With GSM Option	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

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

Inputs and Sensors

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

Related Products

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

Supporting RockFLEET

Mounting Options	Two options available to purchase: Rokk or Flat Steel Mount
Cable Length	Available in 10, 16, 33 & 49ft cable lengths, please specify at purchase
Developer Documentation	Use our support hub for set up and everything you need to get your project up and running **https://docs.rock7.com/docs/rockfleet-overview**

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