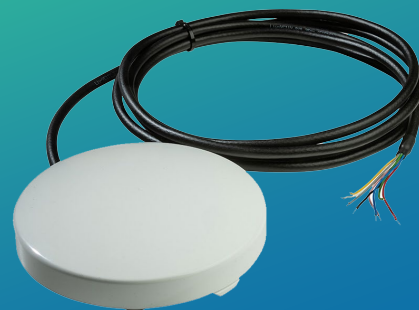


RockFLEET

Permanent satellite and cellular tracking and messaging for vessels, vehicles and remote assets



RockFLEET is a compact, rugged tracking and messaging device for vessels, vehicles and remote assets. It combines Iridium satellite connectivity with LTE Narrowband / GSM, automatically switching to satellite when cellular coverage is unavailable.

It supports GPS tracking, two way messaging, geofencing, sensor-based alerts and M2M / IoT data transfer, with data available in Cloudloop Tracking or through integration with customer platforms.



Reliable global vessel & asset tracking via Iridium satellite



Least cost routing via LTE Narrowband / GPRS where available



Two way messaging for position, alerts & operational data



Configurable tracking profiles for routes, geofences & events

FEATURES

- Permanent asset tracking and messaging for maritime, vehicle and remote outdoor applications
- Truly global operation via the Iridium satellite network
- Optional LTE Narrowband / GSM connectivity for least cost routing where cellular networks are available
- Automatic switching to Iridium when cellular coverage is unavailable
- Autonomous GPS tracking, configurable from every 15 seconds up to every 24 hours
- Full two way messaging from anywhere in the world
- Bluetooth LE messaging using a paired smartphone or tablet
- Configurable tracking profiles based on time, location, movement, power status and connection type
- Integrated GPS, accelerometer, thermometer, power loss and impact sensors
- Optional serial interfaces for M2M and IoT applications
- Switch input/output options for remote input, alerting and control
- Complex geofencing for operational, security and compliance workflows
- Remote configuration of device parameters over the air
- Rugged, waterproof casing for harsh marine and outdoor environments
- Compact, low profile form factor with multiple mounting options
- Cloudloop Tracking integration, with data delivery to customer platforms.

TECHNICAL CHARACTERISTICS

PHYSICAL AND ENVIRONMENTAL

Size	137 mm diameter x 40 mm height
Weight	0.55 kg, including 3 m cable
Iridium Transceiver	9603 Short Burst Data modem
Form Factor	Waterproof and dustproof enclosure
Environmental	IP67
Operating Temperature	-30 °C to +60 °C
Cable	Integrated 3 m cable as standard; 5, 10 and 15 m options available

ELECTRICAL POWER

Voltage Required	9–30 V DC
Power Consumption	700 mA max at 12 V, plus low-current sleep mode below 30 mA
Backup Battery	Rechargeable backup battery for continued operation if external power is lost. Battery life depends on reporting profile

COMMUNICATIONS

Iridium Cellular	Two way satellite data transfer via the Iridium network
Data Send / Receive	LTE Narrowband / GPRS for least cost routing where available
Send/Receive Frequency	340 / 270 bytes per message
Communication Options	Configurable from continuous tracking up to 24 hour intervals or burst mode
Message Delivery	Bluetooth LE; RS-232, RS-485 or CAN serial options
Cloudloop	Messages can be delivered to Cloudloop Tracking, email or customer web services
	Manage and monitor vessel location, status, alerts and historic movement through Ground Control's cloud-based tracking platform

USER INTERFACE AND DEVICE MANAGEMENT

Mobile App	Bluetooth LE app for messaging, local setup and device config
Remote Configuration	Over the air configuration of key parameters and reporting profiles
Local Status	Device status available locally via Bluetooth LE
Remote Alerts	Alerts for power loss, geofences, movement, impact and connection changes

INPUTS AND ALERTING

Geofencing	Entry, exit, route and location-based alerts
Power Monitoring	External power loss detection with internal battery backup
Integrated Sensors	GPS, accelerometer, thermometer, power loss and impact sensors
Serial Input	Optional RS-232 / RS-485 / CAN for M2M and IoT data
Switch Options	Optional switch input/output configurations for remote input, alerting and control