

# ROCKFLEET

Connected. Compact. Versatile.



## Smart device for Real-Time Asset Tracking and IoT Data Solution

RockFleet offers fishing vessels full regulatory compliance with a hybrid maritime tracking and IoT solution designed for continuous monitoring of vessels and assets at sea. It combines cellular connectivity in coastal areas with automatic switching to Iridium satellite communication offshore. Services range from basic delivery of data collected and processed in CLS Group' data center to data integration with client's fisheries monitoring centre and access to CLS Group' web platform for data visualisation, alert management and customised analytics.

## BENEFITS

- CE certified
- Global dual satellite/cellular tracking, e-logbook reporting & email services
- Real-time vessel and asset tracking
- Robust, marinated design (IP68)
- AES-256 encryption, anti-spoofing protection & tamper alerts
- Extended battery life (up to 5 months)
- Alarms triggered on events (such as zone entry/exit, on movement) and technical changes (such as loss of Iridium or GNSS signal, power supply failure, battery backup ON/OFF)

## FEATURES & FUNCTIONALITIES

### TRACKING

- 100% global coverage via the Iridium satellite network
- Real-time vessel and asset position reporting (including speed and heading)
- Configurable tracking intervals and transmission profiles
- Geo-fencing and zone management

### COMMUNICATION

- Hybrid satellite and cellular connectivity
- Automatic switching between GSM and Iridium satellite networks
- Reliable global communication coverage
- Cost-optimized data transmission using terrestrial networks when available
- Secure encrypted communications
- Bluetooth and wired device connectivity
- Send electronic catch reports and messages through application on smart devices

### REMOTE CONTROL

- Upload latest firmware over the air anywhere in the world without vessel downtime
- Terminal parameters reading (reporting frequency, power source...)
- Modification of terminal settings (reporting frequency...)
- Positions on demand (polling)
- Archived positions reading (tracking replay mode)
- Zones parameters setting



# PHYSICAL & ENVIRONMENTAL CHARACTERISTICS

## PHYSICAL FEATURES

Dimensions	137mm diameter x 40mm height
Weight	0.55kg including 3m cabling
Mounting	Optional Rokk or Flat Steel Mount

## POWER

Battery – Power Supply	DC 8-32V
Battery operating time	Operate for up to 5 months without external power (depending on transmission rate and settings)

## ENVIRONMENTAL

Operating temperature	-30 to +60°C
Storage temperature	-40 to +85°C
Waterproof	IP68 (submersible to 3 m for 24 hours)
Compliance	CE . IEC 60945

## OPERATIONALS

LEDs	Power supply – Configuration strategy
Mobile Application	Mobile application available for checking health status of the device, sending test message
Programming/settings	Via Bluetooth and over-the-air
Reporting interval	Configurable from 1 minute to 24 hours
Internal memory	Position recorded
Speed accuracy	0.1 knot
Positioning accuracy	10 m at 95%
Events/Alerts	Zone entry/exit, on movement, loss of Iridium or GNSS signal, power supply failure, battery backup ON/OFF

## COMMUNICATION

Cellular	GSM/GPRS
Satellite	Iridium(1616 to 1626.5 MHz) - HF Power: 32 dBm max
Bluetooth	Bluetooth Low Energy
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 customised data and message

## POSITIONING SYSTEM

GNSS	GPS
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