

RockAIR

Portable, global tracking and messaging for aviation



RockAIR is a portable, satellite-enabled tracking and messaging device designed for use on the dashboard of light aircraft and rotorcraft.

It combines global Iridium connectivity with cellular least-cost routing, automatically using terrestrial networks when available and switching to satellite when they are not. A quick release mounting clip enables fast, straightforward installation without permanently modifying the aircraft.

RockAIR provides configurable position reporting, two way messaging, dedicated Watch and Alert functions, waypoint marking and interfaces for external equipment and sensors. It's well suited to aircraft operators that need dependable tracking, safety alerts and communications beyond terrestrial coverage.



KEY FEATURES

Global hybrid connectivity

Track and communicate worldwide using Iridium, with automatic cellular least-cost routing where terrestrial coverage is available.

Configurable position tracking

Set position reports from every 15 seconds to once every 24 hours, with separate tracking profiles for cellular, satellite and alert conditions.

Dedicated safety functions

Use the front panel Watch and Alert buttons to request additional monitoring or notify responders with the aircraft's position.

Two way messaging

Connect a compatible phone or tablet over Bluetooth LE to send and receive text messages, emails and messages from your operations team.

Portable aviation installation

Install or remove RockAIR in seconds using the quick release mounting clip, with no permanent aircraft installation required.

Interfaces for external systems

Connect M2M or IoT equipment through RS-232 and use five digital inputs to trigger alerts from external switches and sensors.



TECHNICAL SPECIFICATION

PHYSICAL AND ENVIRONMENTAL

Size	100 × 119 × 25 mm (3.94 × 4.69 × 0.98 in)
Weight	210 g (7.41 oz)
Form Factor	Portable, dashboard-mounted device with quick release clip
Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Operating Humidity	≤ 75% relative humidity
Certifications	CE and FCC compliant; tested to applicable RTCA/DO-160 F and G sections

ELECTRICAL POWER *(RockAIR is designed to operate from external power, with an integrated battery for backup)*

Power Input	5 V USB or 8-32 V DC through the Molex connector
Backup Battery	Integrated rechargeable battery
Backup Operation	Up to 8 hours when transmitting over Iridium once per minute
Power Loss Response	Detects external power loss and can switch to a dedicated tracking profile

CONNECTIVITY AND TRACKING

Connectivity	Cellular and Iridium satellite
Network Routing	Uses cellular where available and automatically switches to Iridium when required
Global Coverage	Iridium connectivity across land, sea and polar regions
Position Reporting	Configurable from every 15 seconds to once every 24 hours
Tracking Profiles	Separate reporting settings for cellular, satellite, activity and alert conditions
Remote Configuration	Key tracking parameters can be updated over the air
Cloudloop Tracking	View live and historical positions, manage devices and tracking profiles, and configure alerts through Ground Control's cloud platform

SAFETY, MESSAGING AND INTEGRATION

Watch Mode	Requests active monitoring from the configured service provider
Alert Function	Sends an emergency notification with the aircraft's current position
Two Way Messaging	Text and short email messaging through the RockCONNECT app
Automatic Alerts	Supports events including geofence breaches, power loss, impact and abnormal flight conditions
External Inputs	Five digital inputs for aircraft systems, switches and sensors
Serial Interface	RS-232 connection for compatible external equipment