RockAIR



Portable, globally connected tracking, IoT and messaging device for Aviation

Designed for use on the dashboard of a light aircraft, RockAIR is a portable satellite-enabled tracking device. Quick access to alert features using the front panel along with a comprehensive set of tracking, messaging and M2M/IoT functionality, ensures data or message transfer from anywhere across the globe. Its dual mode least-cost routing option allows cellular connectivity when possible, switching to Iridium Satellite when it's not available. The unit comes with a quick release mount to enable carry-on installation in seconds.



Key Features

• 100% global coverage, delivering accurate GPS locations

• Real-time tracking in all weathers

• Bluetooth LE-enabled two-way messaging

Physical & Environmental

Size 100mm x 119mm x 25mm

Weight 210g (8oz)
Iridium Transceiver 9603 Modem

Patch Antenna x 2 GPS/GLONASS/Galileo Patch Antenna &

MISC-IRIANT1629- Tuned Iridium Patch Antenna

Form Factor Small, light, portable, dash mounted device,

suitable for inside of Aircraft or Rotorcraft, with multiple mounting options. Can be covertly

mounted and positioned

Certifications CE, IC, FCC, DO160 RTCA Aircraft compliant

Electrical Power

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

Power Input/Output Powered by DC input, USB or integrated

backup battery

Voltage Required DC 9-30V

Backup Battery Li-ion polymer battery back-up - 8 hours if set to

make 1 transmission to Iridium per minute

Features

Iridium SBD Connectivity Full two way communication from anywhere in

the world

With GSM Option RockAIR uses GSM networks when available, switches to Iridium only when necessary. Set up

tracking profiles for: different position tracking rates, geo-fence proximity, and changes in behaviour (eg if external power is lost, or if the

device is moving)

Related Products

RockDASH The RockDASH is a portable, dash-mounted,

vehicle tracking and messaging device used to monitor GPS location and vehicle movement The smallest and lightest version in the

RockBLOCK family. Unencapsulated, powered

via USB or direct-header connection

Communications

Cellular Network Options LTE-M, NB-IoT, 2G

GPS Location tracking cadence is customisable - as quick as 15 seconds over cellular, up to

every 24 hours. Alternative tracking profiles can be set up to suit your usage patterns

Iridium Low latency, Short Burst Data (SBD) - auto

switch between cellular and Iridium data transfer keeping your costs down but your

messaging and data flowing

Data Send340 bytes per messageData Receive270 bytes per message

Send/Receive Frequency Configurable from continuous up to 24hr or

burst

Bluetooth LE For advanced messaging; requires BLE

compatible phone/tablet

Message delivery Messages sent from RockAIR can either be

delivered to chosen email address, or sent to

own web service as a HTTP POST

Sending Data HTTP POST made to GC's web service, it's

queued on the satellite network, and almost instantly ready for RockAIR 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

External Switch Inputs

Integrated Sensors

RS-232 is accessible via the 4pin molex

connector (DC power and serial connection)
For easy alerting from external sensors

GPS, accelerometer, thermometer, power loss and impact sensors

Supporting RockAIR

Mounting Options The device has a quick release base clip as a

mounting option

 Cable
 RockAIR comes with a 1m micro usb charging

cable. It also has an optional 4 pin and 6 pin molex cable (molex to flying lead/bare ends),

please request this at purchase

SMA Connectors This option provides SMA connectors for

external Iridium, GPS and cellular antenna.

Please request 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/rockair-overview



RockBLOCK 9603