

Product Information:

RockBLOCK 9603

Compact, robust and extremely versatile - RockBLOCK 9603 can send and receive short messages from anywhere on Earth using the Iridium satellite network. Weather information from mid ocean, telemetry data from an oil rig or temperature readings from the desert; the small but mighty RockBLOCK 9603 can perform all these tasks and more.

Key Features of the RockBLOCK 9603



Compact Size

At only 45 x 45mm, the RockBLOCK is highly suited to projects where a compact solution is needed. Weighing only 45grams; RockBLOCK is at its optimum where weight is a factor - for example in weather balloons or drones.



Power Requirements

RockBLOCK can run on a 5v DC power input but equally it can be powered by 3.7v DC battery making it very usable in remote environments with limited mains power supply. The integrated Sleepmode ensures that battery life is conserved when not in transmission.



Compatibility

The RockBLOCK versatility continues with its compatibility with Arduino, Raspberry Pi, AWS or your own API system making it highly multi-functional.



Integration

Appearing as a serial interface, the RockBLOCK can be controlled by a simple set of AT commands, making it easy to integrate into your own software. Messages of up to 340 bytes can be delivered to your chosen email address or sent to your web service as a simple HTTP post. 270 byte messages can be sent to the RockBLOCK by way of a simple HTTP Post to our web server.



Satellite network

RockBLOCK utilises the power of the Iridium satellite network. Iridium is the only satellite network that offers 24/7 transmission from any point on Earth including the polar regions.



Included components

Antenna

An integrated antenna allows RockBLOCK to be truly plug and play from the box. Due to its versatility an external antenna can be added if your project requires it.

Serial ports

Power can be delivered via the header connector or alternatively by an FTDI/USB cable to give your project more flexibility.

Technical Specifications

Technical Data

Environmental Properties

Storage Temperature	-40 to 85 degrees C
Operating Temperature	-40 to 85 degrees C
Operating Environment	< 75% Relative Humidity

Testing **CL, FCC, Iridium® approval**

Power

RockBLOCK	3.4 - 5.4v
Power Consumption	Max 450mA (100mA required)
Power I/O	Direct Header or FTDI/ USB

Communications

Iridium Modem	9603 short burst transceiver
Iridium Antenna	1621Mhz tuned patch antenna

Product Options

RockBLOCK 9603 - PCB with on-board antenna

RockBLOCK 9603 - PCB versions with SMA connector

9602 vs 9603 Differences

The RockBLOCK 9603 is the smaller version of our standard RockBLOCK Mk2. It has the same capabilities but is specifically designed to be as small and light as possible. The RockBLOCK 9603 is targeted primarily at systems integrators and product developers where space inside their enclosure is at a premium.

Physical Properties

Dimensions	45 x 45 x 15mm
Weight	45 x 45 x 15mm
Mounting Holes	Two on PCB
Header Connector	Molex 51021
Water Proofing	The RockBLOCK 9603 is not waterproof. If you need a waterproof unit, look at the RockBLOCK+ Usage Integration into existing devices

Ideal

Solutions

Ground Control offers you the complete solution to your data transfer needs. We can provide full project solution packages to ensure that the solutions from Ground Control work in the most effective way for your project and business needs.

Your Ground Control Account Manager can provide further details.

Costs and Contracts

With no annual contract RockBLOCK is easy to just plug and play. A rolling monthly charge and credit 'bundles' offer you great value for money.

For projects requiring multiple RockBLOCKS there maybe more cost effective options using the Ground Control Cloudloop system to manage your units. Your Ground Control Account Manager will be able to recommend the best solution.

Disclaimer: The Iridium logo and word, Arduino word, and Raspberry Pi word are registered trademarks of their respected owners.