RockBLOCK 9603



Powerful Satellite Connectivity Integrated with Ease

The RockBLOCK 9603 makes it easy to use Iridium Short Burst Data services with your project. Providing a low-cost way to send and receive data via the Iridium Low Earth Orbit (LEO) satellite network, it offers developers, integrators and manufacturers a powerful component that fits into a compact space. Suitable for applications which need to regularly send or receive small amounts of information, typically tracking, telemetry, system control and monitoring applications.



Key Features

- Smallest and lightest form factor in RB series, for ease of integration
- Very low power draw; can be operated by battery or solar for years
- Plug and play global communication using Iridium satellite network
- Data arrives via email or directly to your own web service
- Simple AT command interface

Physical & Environmental

Size45 x 45 x 15mmWeight36g including antenna

Antenna1621 Mhz tuned patch antennaForm FactorNo outside casing - if needed see

RockBLOCK Plus

Operating Temperature -45 to 85 deg C

Operating Humidity ≤ 75 % Relative Humidity

Storage Temperature-40 to +85 deg CMounting HolesTwo on PCBHeader ConnectorMolex 51021

Electrical Power

The host system must provide DC power to RockBLOCK

Power Input/Output Direct Header or FTDI/USB

Voltage Required 3.4-5.4V **Power Consumption** Max 450mA

Sleep Mode Needs a minimum of 100mA for operation but

easily put to 'sleep' to save power

Features

Small and Light Form Factor Integrate satellite connectivity and data transfer

into small enclosures

Iridium SBD Connectivity Full 2 way communication from anywhere in

the world

Resting Sleep Mode You only pay for the data you send and receive

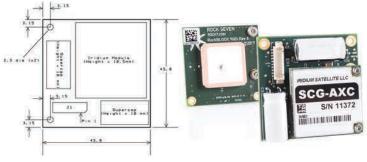
Supporting RockBLOCK

SMA Connector For an external antenna

FTDI TTL-232R-3V3 Cable Terminated with the Molex PicoBlade connector

provides a virtual com port on the USB host

Developer Documentation Use our support hub for set up and everything you need to get your project up and running



Communications

Iridium Low latency, Short Burst Data (SBD)

Data Send340 bytes per messageData Receive270 bytes per message

Send/Receive FrequencyApproximately once every 40 secondsMessage DeliveryMessages sent from RockBLOCK can either

be delivered to chosen email address, or sent to own web service as a HTTP POST

Sending Data HTTP POST made to Ground Control's web service, it's queued on the satellite network,

and almost instantly ready for RockBLOCK

to download on command

Cloudloop Manage and monitor your device and

delivery network with our cloud-based platform, providing real-time data-driven

insight

Interfaces

UART Interface This can be operated in 3-wire mode

(Rx/Tx/GND) with no detriment to

functionality or performance

Serial Interface Follows AT commands for easy integration

into your own software with minimal effort

Related Products

RockBLOCK Plus Ask Ground Control for more details of

RockBLOCK as a waterproof encapsulated

roduct

RockBLOCK 9602 Slightly larger and heavier, a robust option

if you are not space-constrained