RockBLOCK 9602

Global Satellite Connectivity at your Fingertips

The RockBLOCK 9602 modem provides a low-cost way to send and receive data via the Iridium Low Earth Orbit (LEO) satellite network. It offers developers, hobbyists, integrators, and manufacturers the remote connectivity component for a variety of IoT projects, via the easy-to-use Short Burst Data (SBD) service, connecting you or your machine anywhere in the world with a clear view of the sky.

The PCB assembly hosts an Iridium SBD transceiver, simplifies the power requirements, and provides a serial interface to your project. Radio Frequency considerations are taken care of by RockBLOCK's built-in antenna, or SMA connector for an external antenna, maximizing your IoT reach.

Key Features

- Small form factor, low-power, for easy integration into IoT solutions of any size
- Plug and play global communication using Iridium satellite network
- Data arrives via email or directly to your own web service

Physical & Environmental

Size	3" x 2" x 0.7"
Weight	0.15lbs
Antenna	1621 Mhz tuned patch antenna
Form Factor	No outside casing - if needed see RockBLOCK Plus
Operating Temperature	-22 to +185 Fahrenheit
Operating Humidity	≤ 75 % Relative Humidity
Storage Temperature	-40 to +185 Fahrenheit

Electrical Power

Voltage Required	5V DC
Current Limiter	Yes
Sleep Mode	Needs a minimum of 100mA for operation but easily put to 'sleep' to save power

Features

Small but Mighty Form Factor	Provides the basic kit to build or manufacture a satellite IoT system
Iridium SBD Connectivity	Full 2 way communication from anywhere with a clear view of the sky
Resting Sleep Mode	You only pay for the data you send and receive

Supporting RockBLOCK

SMA Connector	For an external antenna
Developer Documentation	Use our support hub for setup and everything you need to get your project up and running

Communications

Iridium	Short Burst Data (SBD)
Data Send	340 bytes per message
Data Receive	270 bytes per message
Message Delivery	Messages 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	Exposed on the header connector
Serial Interface	Follows AT commands for easy integration into your own software with minimal effort

Related Products

RockBLOCK 9603	The smallest and lightest version in the RockBLOCK family. Powered via USB or direct-header connection
RockBLOCK Plus	The RockBLOCK 9602 is available as a fully waterproof, encapsulated product, suitable for the most harsh environments

Ground Control
USA
800.773.7168
UK
+44 (0) 1452 751 940
www.groundcontrol.com
sales@groundcontrol.com