RockBLOCK Plus



Contained in protective, ruggedized casing, the RockBLOCK Plus offers solution designers satellite connectivity for movement of data from remote locations out of cellular or fiber reach. As a robust and ready to deploy IoT communications solution, it provides a means of commanding, monitoring, and diagnosis of remote sensors on land, air or sea. Utilizing Iridium's Short Burst Data (SBD) service, the RockBLOCK Plus and Cloudloop platform provide data transportation, visibility and retrieval to-and-from anywhere on Earth with a clear view of the sky.

Key Features

- Fixed static installation or vehicle mounted, this fully encapsulated product is weatherproof in extreme conditions
- Providing global communication using Iridium satellite network

Physical & Environmental

Size Weight	5.12" diameter x 1.57" depth 0.66lbs (9602 modem and casing)
Antenna	1629 Mhz tuned patch antenna
Form Factor	Waterproof and ruggedized Tigershark casing
IP Rating	IP67
Operating Temperature	-40 to +185 Fahrenheit
Operating Humidity	≤ 75 % Relative Humidity
Storage Temperature	-40 to +185 Fahrenheit
Cable	RS-232 data link. 9.84' molded to the unit

Electrical Power

The host system must provide DC power to RockBLOCK Plus		
Power Input/Output	Power cable attached	
Voltage Required	9.0v - 30v DC Regulated	
Power Consumption	Max 225mA	
Sleep Mode	Needs a minimum of 100mA for operation but	
	easily put to 'sleep' to save power	

Features

Ruggedized, Waterproof,	Protected in all weather, extreme conditions
UV-Resistant Casing	
Iridium SBD Connectivity	Full 2 way data communication from anywhere
	in the world
Resting Sleep Mode	You only pay for the data you send and receive

Supporting RockBLOCK

Data Link Cable Lengths	Available as 16.4', 32.8', 49.2' lengths
FTDI Low Voltage Cable	Provides an FTDI/USB cable (pre-moulded to
Variant	device). This reduces the required voltage to $5v$
	Fixed 5.9' length cable only
Additional Mounting	Fix the RockBLOCK Plus to a stationary or
Options	moving object for satellite connectivity
	wherever you need it
Developer Documentation	Use our support hub for set up and everything
	you need to get your project up and running

- Data arrives via email or directly to your own web service
- Compatible with Arduino, Raspberry Pi, AWS or integrated with API into own software

Communications

Iridium	Low latency, Short Burst Data (SBD)
Data Send	340 bytes per message
Data Receive	270 bytes per message
Send/Receive Frequency	Approximately once every 40 seconds
Message Delivery	Messages sent from RockBLOCK Plus 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
	Plus 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	
RS-232 data link	The data serial interface is an RS-232

The data serial interface is an RS-232 interface over which RockBLOCK Plus and your host controller transfer commands, responses, and SBD message data

Related Products

RockBLOCK 9602	The PCB assembly hosts an Iridium SBD
	modem, simplifies the power requirements,
	and provides a serial interface to your project
RockBLOCK 9603	The smallest and lightest version in the
	RockBLOCK family. Unencapsulated, powered
	via USB or direct-header connection



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