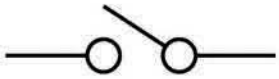
RockBLOCK Switch

A simple, yet robust, remote switch with global satellite connectivity



NOTE: The RockBLOCK SWITCH is NOT a relay

The RockBLOCK Switch offers a simple, yet powerful IoT solution for remote on/off control of items such as a relay, a light, a sounder (alarm) or a larger more power-hungry device, via the Iridium Satellite network.

The device comes in a small, waterproof form factor and in standby mode (ready to switch) uses just 750mW. Providing a cost-effective, low power means of switching remote devices on or off in locations with limited or no electrical power source, and no other form of reliable communication link. Utilizing the Short Burst Data service over the Iridium satellite network, RockBLOCK Switch will literally work anywhere on the surface of the earth provided it has a clear view of the sky.

Key Features

- **IO Capability**
  1 open drain output (30V open, 100mA closed)
  2 digital inputs (dry contact - 300uA wetting)
  1 Analog input configurable as either 0-10V or 4-20mA

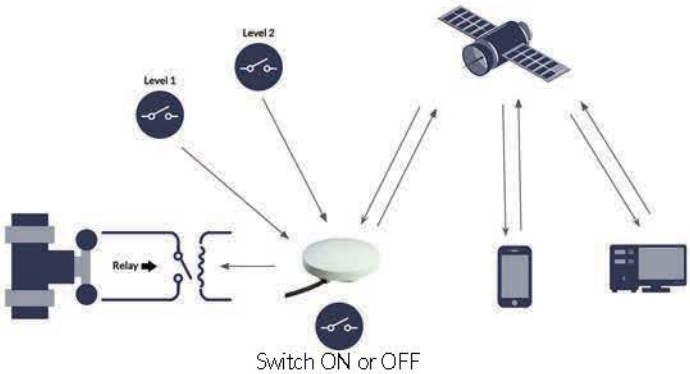
- **Global Satellite Transmission**
  Iridium's reputable LEO satellite network provides low latency data transmission with global coverage

- **Pulse Capability**
  The digital output can be triggered to pulse - either one shot or PWM. This gives the option, for example, to run through a timed OFF/ON with just a single message. Multiple time base and pulse width settings

- **Simplicity and Ease**
  Utilizing Ground Control's leading IoT management platform Cloudloop, or our API, for remote data, device and IoT system management

Physical & Environmental

Size	137mm D x 40mm H
Weight	550g (including 3m cabling)
Operating Temperature	-40C to +85C
Antenna	Internal Iridium
Modem	Iridium SBD transceiver
Form Factor	Waterproof casing
Ingress Rating	IP68
EMC Compliance Certification	CE & FCC



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Compute Module

Processor	ARM Cortex M3, 100MHz
Memory	64kB RAM, 256kB Flash
Configuration	Wireless configuration using a smartphone app via BLE. Remote configuration via Cloudloop Device Manager

Electrical / Power

Voltage Required	8-32V DC
Power Consumption	Unit in standby (ready to switch) is 750mW
Peak Current Draw	700mA at 12V

Communications

Iridium Network	Iridium SBD Service
WAN	SBD
Bluetooth	BLE 5.0
Serial	Serial comms option (RS232 or RS485) connected via 8 way cable
Cloudloop Device Manager	For remote management, device update and configuration of the RockBLOCK Switch or integrate into your own IoT system with our API

Supporting RockBLOCK Switch

Mounting Options	Two options available to purchase: Rokk or flat steel mount
Cable Length	Available in 3, 5, 10 & 15m cable lengths

Please select cable length and preferred serial communications at purchase

Related Products

RockBLOCK Sense	Global satellite connectivity in a compact, waterproof, low power, lightweight, satellite IoT device. Providing input/output representing a scaleable or variable sensor measure
RockBLOCK Plus	Contained in protective, ruggedized casing, RockBLOCK Plus offers global satellite connectivity for low speed serial data connections