

# **RockBLOCK Sense**

Global, low-latency variable IoT sensing using satellite connectivity

# ··· iridium



# **Key Features**

The RockBLOCK Sense facilitates satellite connectivity and backhaul of remote IoT sensor data (such as temperature, pressure, light, movement, flow) via classic IoT voltage and current-sensing input. It provides a means of taking variable measurements from sensors in remote, hard to reach places, with limited power sources or connectivity, and transmitting the data back to a base of your choosing.

If the unit sends values every five minutes, it consumes just 500mW. Lowering that to every hour reduces the power consumption to 380mW, providing a reliable, cost-effective means of data transfer. Using the Iridium Short Burst Data (SBD) service providing low latency coverage globally over the Iridium LEO satellite network. RockBLOCK Sense ensures your IoT sensor data can be reliably consumed anywhere with a clear view of the sky.

# IO Capability

1 open drain output (30V open, 100mA closed) 2 digital inputs (dry contact - 300uA wetting) 1 Analogue 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

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



Showing RockBLOCK Sense powered by a combination of Lithium-based cell and supporting solar panel for Arctic location



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#### **Compute Module**

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

#### **Electrical / Power**

Voltage Required Power Consumption	8-32V DC Unit sending values every 5 minutes is 500mW. Sending values every hour lowers the power to 380mW
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 Sense or
	integrate into your own IoT system with our simplified APIs

#### Supporting RockBLOCK Sense

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

Please select cable length and preferred serial communications at purchase

#### **Related Products**

RockBLOCK SwitchGlobal satellite connectivity in a compact, waterproof, low power, lightweight, satellite IoT<br/>device - providing input/output representing on/off or binary switch capabilitiesRockBLOCK PlusContained in protective, ruggedized casing, RockBLOCK Plus offers global satellite connectivity for<br/>low speed serial data connections

