# RockREMOTE Rugged



## Secure and Flexible IoT Data Transmission from Harsh Environments

RockREMOTE Rugged has tough outer protection and tested resilience to ensure reliable data connectivity for both mobile and static use cases. Securely connecting your remote IoT assets and using IP or message-based protocols, it provides diverse connectivity through Iridium Satellite or LTE networks. Whether over water, crossing a variety of terrains, or in permanent installations in challenging conditions. RockREMOTE Rugged delivers data gathering, transfer, backhaul, and management capabilities for your global satellite IoT project.



## **Key Features**

Ruggedized Exterior Casing: RockREMOTE Rugged casing is rated IP67 and compliant with stringent health, safety and environmental requirements Global Connectivity from Iridium Satellite Network: Combining the Iridium LEO network, Certus 100 and least cost data routing over cellular LTE, ensures connectivity that matches your application needs from anywhere in the world

IMT Option - Optimized Data Transfer: With Iridium Messaging Transfer (IMT) service there is no TCP/IP or MQTT overhead - only pay for sending your message payload. Integrated lossless compression further reduces the IoT payload. For small messages, there is up to 90% cost saving versus Certus IP

Solution Flexibility and Evolution: Equipped with a range of physical serial, digital and LAN connectivity options, the RockREMOTE Rugged is designed to connect a wide range of measuring and monitoring sensor devices. It both solves short-term challenges and will adapt to your application needs over time

## Physical & Environmental

Satellite Transceiver Iridium Certus 9770 Transceiver LTE Cellular Module Regional specific variants **Device Size** 9.8" x 3.8" x 2.4"

Weight 2.6 lbs

Form Factor Aluminum casing

**IP Rating** IP67

**Vibration Rating** EN 300 019-2-5, EN 300 019-2-7

**Operating Temperature** -40F to +158F **EMC Compliance** CE & FCC & IC

**Power Cabling** 3.3' power cable including device terminal block

Iridium Antenna 3.7" diameter x 7.5" height, pole mounted

omnidirectional antenna, and 1 x 29.5' antenna

cable, including connectors

#### **Electrical Power**

10 to 30V DC Voltage Required

OW (sleep), 5W (idle), 9W (average transmit) **Power Consumption** 

#### Interfaces

M12 Connector

DC Power & LAN (Hybrid cable supplied) M12 Connector Cellular, GNSS, Wifi. (TNC cable assembly to SMA Connector to

supplied Certus antenna) **External Antennas** 

Standard (2FF) x 2, (Satellite & Cellular) SIM Card Slot

# Supporting RockBLOCK

Cellular Antenna Optional external LTE antenna

Mounting The device is designed with pre-drilled fixing holes,

> allowing for easy mechanical fastening to other structures. Optional mounting brackets can be purchased for mechanical fixing to a bulkhead

Use our support hub for set up and everything **Developer Documentation** 

you need to get your project up and running

# Compute Module

Processor Quad Core 1.5GHz Memory 2GB RAM, 8GB Flash

**Operating System** Linux based **Protocol Facades** For MQTT and FTP

## Communications

Iridium Certus 100 TCP/IP: 22Kbps up / 88Kbps down. LTE

Iridium Messaging Data transfer packet size from 1 to 100,000 Transport (IMT) bytes, providing flexibility to meet varied

data requirements

Cellular LTE Cat 1 and Cat 4. Automatic WAN

failover

**GNSS** GPS, Glonass, Bei-dou, Galileo, QZSS Wifi 2.4 GHz, 5.0 GHz IEEE802.11 b/g/n/ac

## **Controls and Monitoring**

Cloudloop Manage and monitor your device and

> delivery network with our cloud-based platform, providing real-time data-driven insight. Giving you the capability to monitor and manage data usage and billing across all

devices

RockREMOTE DashBoard Local web based configuration and

management interface

## **Related Products**

The smallest and lightest version in the SBD RockBLOCK 9603

RockBLOCK family. Powered via USB or

direct-header connection

Mid-range IoT device utilising Iridium Certus **RockREMOTE** 

100 to transmit multiple sensors' data or compressed images. Designed for use within

an enclosure

