# 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 TransceiverIridium Certus 9770 TransceiverLTE Cellular ModuleRegional specific variantsDevice Size9.64' x 3.81' x 2.4' (LxWxH)

Weight 1.2kg

Form Factor Aluminium 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 with cut end

**Iridium Antenna** 3.74' diameter x 7.51' height, pole mounted om-

nidirectional antenna, and 1 x 27.5' antenna

cable, including connectors

#### **Electrical Power**

**Voltage Required** 10 to 30V DC

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

### Interfaces

Circular 12pin Serial & Input/Output
Circular 3pin DC Power & Sleep control

Circular 8pin Ethernet (2M terminated cable provided)

SMA Connector to Cellular, GNSS, Wifi. (TNC cable assembly to

**External Antennas** supplied Certus antenna)

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

## **Supporting RockREMOTE**

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

or pole

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

you need to get your project up and running

# Compute Module

ProcessorQuad Core 1.5GHzMemory2GB RAM, 8GB FlashOperating SystemLinux based

Protocol Facades For MQTT and FTP

## Communications

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

failover

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, OZSS

**Wifi** 2.4 GHz, IEEE802.11 b/g

### **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**

**RockBLOCK 9603** The smallest and lightest version in the SBD

RockBLOCK family. Powered via USB or

direct-header connection

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

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

an enclosure