RockREMOTE



Flexible Data Routing Options for your Fixed Remote IoT Solution

RockREMOTE is a communication solution for remote IoT applications. It connects telemetry devices and monitoring applications using a range of interfaces. RockREMOTE can transport more sensor data than Short Burst Data services, including compressed images. It runs on Iridium Certus 100, which is IP-based, or Iridium Messaging Transport (IMT), which is message-based, or it switches to LTE if cellular connections are available. When combined with the Cloudloop platform, it provides an innovative solution for your data gathering, transfer, backhaul, and management needs.



Key Features

Global Connectivity from Iridium: 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 - Optimizing Data Transfer: With Iridium Messaging Transfer (IMT) there is no TCP/IP 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 serial, digital and LAN connectivity options, the RockREMOTE connects a wide range of measuring and monitoring sensors. It helps solve short-term challenges and enables development of your IoT application needs over time

Security: The combination of controls on the device itself and security measures within the delivery network ensure peace of mind and security needed to protect your remote IoT assets and data

Physical & Environmental

Satellite Transceiver Iridium Certus 9770 Transceiver
LTE Cellular Module Regional specific variants
Device Size 7.6" x 4.7" x 4.6"

Weight 2.78lbs

Form Factor Aluminum casing

IP Rating IP5x (For outdoor use see RockREMOTE Rugged

data sheet)

Operating Temperature -40F to +158F

Range

EMC Compliance CE & FCC

Power Cabling $1 \times 3.3'$ power cable including device terminal

block connector

Iridium Antenna 3.7" diameter x 7.5" height, pole

mounted omnidirectional antenna, and 1 x 29.5'

antenna cable including connectors

Electrical Power

Voltage Required 10 to 30V DC

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

Interfaces

Ethernet RJ45 x 1

Serial RS232 x 1, RS485/RS422 x 1

Digital - General Purpose GPIO port x 1 (with 8 isolated GPIOs)

In/Out

SIM card slot Standard (2FF) x 2 (Satellite & Cellular)

Supporting RockBLOCK

Cellular Antenna Optional external LTE antenna

MountingRockREMOTE stands on 4 x rubberised feet to allow secure desktop placement. It can also be

mounted on an industry standard IEC/EN

60715 DIN rail.

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

Communications

Iridium Certus 100 TCP/IP: 22Kbps up / 88Kbps down, with

LTE failover

Iridium MessagingData transfer packet size from 1 to 100,000Transfer (IMT)bytes, providing flexibility to meet varied

bytes, providing flexibility to meet varied data requirements. Auto switch over to

Certus 100 for IP connections

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 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 Rugged Mid-range IoT device, ruggedized casing for

protection in all weather conditions and environments, utilized for a wide variety of mobile and challenging environment use

cases

