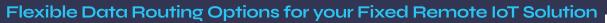
RockREMOTE



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 - Optimising 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

Iridium Certus 9770 Transceiver
Regional specific variants
193.3 x 120.3 x 117mm (LxWxH)
1,263g
Aluminium casing
IP5x (For outdoor use see RockREMOTE Rugged
data sheet)
-40C to +70C
CE & FCC
1 x 1M power cable including device terminal
block connector
95mm diameter x 191mm height, pole mounted omnidirectional antenna, and 1 x 29.5' antenna cable including connectors

Electrical Power

Voltage Required10 to 30V DCPower Consumption0W (sleep), 5W (idle), 9W (average transmit)

Interfaces

 Ethernet
 RJ45 × 1

 Serial
 RS232 × 1, RS485/RS422 × 1

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

 In/Out
 Standard (2FF) × 2 (Satellite & Cellular)

Supporting RockREMOTE

Cellular Antenna	Optional external LTE antenna
Mounting	RockREMOTE 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



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Compute Module

Processor	Quad Core 1.5GHz
Memory	2GB RAM, 8GB Flash
Operating System	Linux based

Communications

Iridium Certus 100	TCP/IP: 22Kbps up / 88Kbps down, with
	LTE failover
Iridium Messaging	Data transfer packet size from 1 to 100,000
Transfer (IMT)	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, ruggedised casing for protection in all weather conditions and environments, utilised for a wide variety of mobile and challenging environment use
	cases

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