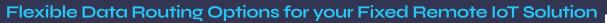
# RockREMOTE



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**

Satellite Transceiver	Iridium Certus 9770 Transceiver
LTE Cellular Module	Regional specific variants
Device Size	193.3 x 120.3 x 117mm (LxWxH)
Weight	1,263g
Form Factor	Aluminium casing
IP Rating	IP5x (For outdoor use see RockREMOTE Rugged
	data sheet)
Operating Temperature	-40C to +70C
Range	
EMC Compliance	CE & FCC
Power Cabling	1 x 1M power cable including device terminal
	block connector
Iridium Antenna	95mm diameter x 191mm height, pole
	mounted omnidirectional antenna, and 1 x 9M
	antenna cable including connectors

# **Electrical Power**

10 to 30V DC Voltage Required OW (sleep), 5W (idle), 9W (average transmit) **Power Consumption** 

#### Interfaces

RJ45 x 1 Ethernet RS232 x 1, RS485/RS422 x 1 Serial GPIO port x 1 (with 8 isolated GPIOs) **Digital - General Purpose** In/Out Standard (2FF) x 2 (Satellite & Cellular) SIM card slot

#### 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**

RockBLO

RockREM

CK 9603	The smallest and lightest version in the SBD
	RockBLOCK family. Powered via USB or
	direct-header connection
1OTE 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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