

Production Information:

RockREMOTE

RockREMOTE offers a highly reliable communication solution to solve the most challenging remote IoT problems, ensuring that your data keeps flowing no matter what.

Securely connecting remote IoT assets over Ethernet TCP/IP, and providing resilience through both LTE and Iridium Satellite networks, RockREMOTE is ideal for truly remote industrial IoT in both fixed and mobile environments.

Key Features and Benefits

Designed for Remote IoT



Designed to solve complex remote IoT problems, the RockREMOTE solution can address the IoT application needs of multiple industry segments in both fixed and mobile environments.

Robust and Reliable Communications



Combining the resilient Iridium Certus 100 satellite network and lowest cost data routing via cellular LTE with robust, secure ground networking, the RockREMOTE solution has been designed to ensure that your remote IoT assets remain connected.

Easy to Deploy



With its compact form factor and easy to install antenna, RockREMOTE can be rapidly installed with little technical expertise required. The Iridium LEO satellite constellation enables omnidirectional antenna design, making the solution ideal for IoT assets which move.

End to End Connected and Secure



Always connected over TCP/IP the RockREMOTE offers end-to-end network security options including VPN and inbuilt hardware encryption, ensuring RockREMOTE provides a truly secure, always-on connection to critical asset data.

Keeping You in Control



Ground Control's Cloudloop platform provides a core component of the RockREMOTE solution, offering complete control over IoT communications subscriptions, data and usage.

Flexibility to Evolve



Combining a rich terminal feature set and wide ranging integration possibilities, the RockREMOTE can not only help solve short-term challenges, it can support the evolution of your IoT application needs over time.

Delivery and Support



With 20 years of experience in delivering satellite solutions, Ground Control's team of technical engineers and customer support staff provide industry-leading expertise. We ensure that you get the right solution for your needs by providing world-class support during scoping, deployment, and beyond.

Use Cases

Oil and Gas

- Prevent production stoppage with real-time alerts of machinery failure
- Reduce response times and send fewer people into the field



Mining

- Gather and analyze data to optimize loading and hauling operations
- All weather, real-time data transmission



Utilities

- Visibility and control of assets spread over a wide area
- Extend the reach of telemetry applications



Renewables

- Measure conditions at potential new sites without power
- Real-time reporting on power generation to prevent saturation



Transport & Cargo

- Track your fleet wherever they are on the globe
- Transmit course corrections and temperature adjustments in real-time



Technical Specifications

Communications

Satellite	Iridium Certus 9770 Transceiver
Satellite Antenna	Passive Omnidirectional
Satellite Network	Iridium Certus 100 TCP/IP: 22Kbps Up / 88Kbps Down
Cellular	LTE Cellular Module (Regional Specific Variants)
Cellular Antenna	Optional External LTE Antenna
SIM Card Slots	2 x Standard (2FF) SIM Card Slots (Satellite + Cellular)

Connection Interfaces

Ethernet	1 x RJ45
Serial	1 x RS232, 1 x RS485/RS422
Digital	1 x GPIO Port with 8 x Isolated GPIOs

Compute Module

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

Power Specification

Power	10 to 30V DC
Power Consumption	0W (Sleep), 5W (Idle), 9W (Transmit)

Physical Specification

Terminal Dimensions (mm)	193.3 x 120.3 x 11.7 (LxWxH)
Terminal Weights	1,263g
Antenna Dimensions (mm)	150 (H) x 97 (Ø)
Mounting	Standard DIN Rail Mounting

Compliance

Iridium	Certus 100 IoT
Operating Temperature	-40°C to +70°C
Ingress Protection	IP5x (Dust)
EMC Compliance	CE & FCC



Management Interfaces

RockREMOTE Dashboard	Local web based configuration and management interface
Cloudloop	Cloud based subscription and usage management platform