RockREMOTE

RockREMOTE offers a reliable and flexible communications solution for truly remote Industrial and Utilities IoT applications. Combining a range of serial and digital integration interfaces, with seamless failover between the resilient Iridium Certus satellite and LTE cellular networks, the highly adaptable RockREMOTE guarantees robust communication and provides the vital link to ensure that your data keeps flowing when the grid stops.

Key features of the RockREMOTE

Robust and reliable communication
RockREMOTE can use either the resilient Iridium Certus satellite service or the integrated LTE cellular connectivity; the user determines the primary and the failover. This ensures robust and reliable communication regardless of location or environment.

Designed for easy remote industrial site deployment
Combining small form factor, industry standard DIN rail mounting and omni directional antenna, with sleek and robust industrial design, RockREMOTE is specifically designed for ease of installation and operation in remote industrial environments.

Usage optimisation enables RockREMOTE to be deployed in solar powered environments in truly remote locations where mains power is unavailable.

Beyond communications
Going beyond pure communications, RockREMOTE's powerful integrated processing, storage and security enables the evolution towards Edge Computing, allowing the development of secure IoT applications that can communicate efficiently over industry standard protocols such as MQTT into commonly used IoT cloud services from Amazon, Google and Microsoft.

Complete solutions
By offering a tailored range of satellite and cellular data plans, Ground Control offers far more than just a device. Our online platform Cloudloop provides complete visibility and control over your asset usage, and subscription management tools. The Ground Control team are also here to offer you our industry-leading expertise, and would welcome the opportunity to discuss your individual needs.

Highly secure
Data security for critical infrastructure communication is paramount, RockREMOTE's inbuilt hardware security module ensures that your data is safely secured while being transmitted over the network.

Specifications

Technical Specifications

Compute Module

Processor	Quad Core 1.5GHz Cortex-A72 (ARM v8)
Memory	2GB RAM, 8GB Flash
Operating System	Linux

Communications

Satellite	Iridium Certus 9770 Transceiver & Omni Antenna
Cellular	Telit LE910Cx LTE Modem with embedded GNSS (Region specific variants available) Optional cellular & GNSS Antennas
SIM Card Slots	2 x Standard SIM card slots (Satellite + Cellular)

Connection Interfaces

Serial Interfaces	1 x RS232 interface, 1 x RS485 interface
Digital Interface	1 x GPIO interface
Network Interfaces	1 x RJ45

Power

Specification	Range: 10v - 30v DC	Draw: 1.5 amp average 4 amp peak (at 12V) Supercapacitors for safe shutdown
Power Interface	Spring loaded header socket

Security

Hardware security	Dedicated hardware security module

Physical Specifications

Dimensions LxWxH (mm)	193.3 x 120.3 x 111.7
Mounting	Industry Standard DIN rail mounting
Ingress Protection	IP5X
Iridium Antenna	(h) 111mm x (Ø) 94mm, IP66

User Interface

RockREMOTE Dashboard	Easy to use configuration interface, Advanced debugging and monitoring tools

About Ground Control

Ground Control launched in 2021 and could be described at the new kid on the block. However, Ground Control came about from the merger of 3 highly successful companies in the satellite communications arena.

Due to this Ground Control has over 40 years of expertise in satellite tracking, communicating and data management.

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