











RockBLOCK Plus 9704 builds on the RockBLOCK 9704 module by adding a rugged, IP68-rated enclosure, onboard u-blox MAX-M10S GNSS, dual RS-232 ports (Iridium and GNSS), simplified I/O, and wide input voltage support for power and control. Designed for IoT and M2M applications, it reduces integration time with comprehensive C and Python SDKs, and seamless cloud data routing via Cloudloop.

Key Features

-  **Global Iridium Certus®9704 IMT Connectivity**
Powered by the IridiumCertus9704 module, the device supports bidirectional satellite messaging worldwide via Iridium Messaging Transport (IMT).
-  **Large Payloads & Low Latency**
Transmits messages from as small as 25bytes up to 100KB with typical end-to-cloud latency under 10seconds.
-  **Ultra-Low Power Consumption**
Energy-efficient design with idle power around 200mW, sleep mode below 100mW, and peak draw around 1.6W - ideal for battery-powered deployments.
-  **Integrated GNSS & Iridium Antennas**
No need for external antenna domes - simplifies installation and enclosure design.
-  **Simple Serial Interface**
Dual RS232 serial ports for 9704 and GNSS comms (with the ability to set independent baud rates).
-  **Rugged IP68-Rated Enclosure**
Built to withstand harsh outdoor environments. Dustproof, waterproof, and ready for field deployment.
-  **Compatible with Ground Control SDKs**
Developer-friendly C, Python and Arduino SDKs with sample code; quick to get up and running on any compatible OS.
-  **Cloudloop Data Integration**
Automated message reformatting for seamless API-based ingestion into backend systems.

Physical & Environmental

Form Factor	Fully enclosed, UV resistant-case with marine kevlar cable
Dimensions	167 mm diameter, 40 mm height
Weight	TBC
Environmental Rating	IP68, suitable for permanent mounting in outdoor locations
Antenna	Built-in Iridium and GNSS antennas
Operating Temperature	-40°C to +85°C (-40°F to +185°F)

Electrical Power

Voltage	7.0 - 30.0V DC
Power Consumption	< 100 mW minimum; ~200 mW idle; ~1.6 W transmitting

Interfaces

Serial	The data serial interface is an RS232 interface over which RockBLOCK Plus 9704 and your host controller transfer commands, responses, and IMT message data
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Communications

Iridium Messaging Transport (IMT)	Data transfer packet size flexible from 25 to 100,000 bytes
GNSS	ublox MAX-M10S GNSS
Protocol	IMT via our C, Python and Arduino SDKs

