



Key Features

RockBLOCK 9704 accelerates remote IoT deployment by making connectivity, integration, and global data delivery effortless.

Designed for developers and systems integrators building compact, reliable satellite-enabled applications, RockBLOCK 9704 supports Iridium Messaging Transport (IMT) for low latency, high throughput messaging over a truly global network.

Available in bare-module or enclosed variants with antenna options, it delivers consistent performance with minimal setup and a unified software stack for C, Python, Arduino and Cloudloop integration. Whether embedding on your custom PCB, mounting in an enclosure, or prototyping with evaluation kits, RockBLOCK 9704 streamlines your entire development workflow.



Simple power and I/O interfaces

USB-C and 16-way header support TTL serial, digital I/O and GNSS passthrough for straightforward integration.



Developer friendly with C and Python libraries

Get up and running fast with ready-made code and publicly accessible libraries, supporting Linux, macOS, Windows, Raspberry Pi and Arduino. Find step by step guides to accelerate your development and get your project and data moving.



Compact, ultra slim module

Easily integrates into space constrained designs with minimal wiring and set up.



Global satellite messaging via Iridium Messaging Transport (IMT)

Send and receive data anywhere on Earth using Iridium's reliable, low latency LEO network.



Send more data, faster

IMT introduces larger packet payloads (up to 100 KB), and faster transmission times, ideal for aggregated sensor data, audio or image files.



Controlled airtime costs

Purchase airtime in pre-paid bundles in Cloudloop, enabling full visibility and control over spend, with no contracts or surprise costs.



Full stack support

Our Cloudloop platform provides data and subscription management, or the equivalent RESTful API to integrate functions into your own application and software.

RockBLOCK 9704

Global, low-latency satellite messaging for your remote application

RockBLOCK 9704 SMA



RockBLOCK 9704 ANT



Physical & Environmental

Form factor
Mounting
Device size (LxWxH)
Weight
Environmental Rating
Antenna

PCB assembly with notched edge
Slot mount with frame available
48 × 52 × 16 mm
35 g (excl. antenna)
None
SMA connector for Iridium/GNSS +
U.FL for GNSS passthrough

PCB assembly with integrated patch antenna
4 × 4mm mounting holes
72 × 72 × 16.5 mm
50 g (incl. patch antenna)
None
Integrated patch antenna + U.FL for GNSS
passthrough

Communications

Iridium Messaging Transport (IMT)
Data transfer packet size flexible
from 1 to 100,000 bytes

GNSS
External RF feed for external
GNSS decoders via U.FL

Protocol
IMT messaging via Iridium interface
supported by Ground Control
code libraries.

Electrical Power

Requirement
4.0–5.3 V DC; 3.6–4.5 V battery;
5 V USB-C

Power consumption
60mW Idle, 1.4W Max

Interfaces

Digital - General purpose I/O
Serial and 9704 control via 16-way
cable assembly



RockBLOCK Plus 9704: Rugged Satellite and GNSS in One

Encased in an IP68-rated housing, RockBLOCK Plus 9704 combines the Iridium 9704 module with a high sensitivity u-blox MAX-M10S GNSS receiver, dual RS-232 ports, and wide range power inputs. It's built for harsh environments and rapid integration, perfect for remote IoT, asset tracking, and mobile applications.

Choose RockBLOCK 9704 when:

- ✓ You need low latency, high payload, global satellite messaging
- ✓ You're designing a compact, PCB-integrated IoT device
- ✓ You want GNSS passthrough plus flexible I/O control

Developer Support



RockBLOCK 9704 SMA
Product Page



RockBLOCK 9704 ANT
(patch) Product Page



Developer Site



Cloudloop
Data



Code Bank



Prepay Subscription
Manager

Want Integrated Network Management?



RockBLOCK
Pro SMA / ANT



RockBLOCK
Pro OEM