

RockBLOCK IMT Product Family Showcase



These devices are built around the Iridium Certus 9704 satellite module, utilizing Iridium Messaging Transport (IMT) for faster message throughput, larger payloads, and improved power efficiency compared to other message-based services.

Designed by Ground Control, the hardware combines decades of satellite integration experience with the advanced capabilities of IMT. Whether you're looking to upgrade from a 9603-based solution or launch a new IoT deployment, our 9704 devices offer a compact form factor, low power consumption, and seamless integration into your remote applications.

Key Features



Low Power Consumption

Engineered for battery- and solar-powered deployments. Minimizes energy draw compared to larger modules



Compact and Lightweight

The small form factor, particularly in the RockBLOCK 9704 SMA, lends itself to small enclosures.



Full Stack Support

Cloudlloop Platform provides data, subscription, device, GNSS tracking (PRO only) and network operational management, or equivalent RESTful API to integrate functions into your own application and software.



High Volume Messages

Send messages up to 100KB, far exceeding SBD limits.



Cost-Efficient Pricing

Optimized airtime pricing for 10–55KB/month; this is the sweet-spot for IMT via 9704

Flexible Form Factors

Supporting multiple applications, from developer PCBs to ruggedized enclosures.





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	RockBLOCK 9704 SMA	RockBLOCK 9704 Antenna	RockBLOCK Pro OEM	RockBLOCK Pro
Physical & Environmental				
Form factor	PCB assembly with notched edge for slot-mounting. Mounting frame available	PCB assembly with 4 mm mounting holes	PCB assembly with mounting frame	Aluminium enclosure
Device size (LxWxH)	$48 \times 52 \times 16$ mm	72 × 72 × 16.5 mm	104 × 65 × 29 mm	121 x 75 x 57 mm 188 x 91 x 57 inc antenna
Weight	35 g (excl. antenna)	50 g (incl. patch antenna)	<108 g (excl. antenna)	400 g (incl. antenna)
Environmental Rating	None	None	None	IP66
Antenna	SMA connector for Iridium/GNSS + U.FL for GNSS passthrough	Integrated patch antenna + U.FL for GNSS passthrough	SMA connector; approved combined Iridium + GNSS antenna required	Optional built-in antenna; or use SMA connector
Electrical Power				
Requirement	4.0-5.3 V DC; 3.6-4.5 V battery; 5 V USB-C	4.0-5.3 V DC; 3.6-4.5 V battery; 5 V USB-C	5-30 V DC, 5 V USB-C	5-30 V DC, 5 V USB-C
Power consumption	60mW Idle, 1.4W Max	60mW Idle, 1.4W Max	200mW Idle, 2.5W Max	200mW Idle, 2.5W Max
Interfaces Digital - General Purpose I/O Communications	Serial and 9704 control via 16-way cable assembly	Serial and 9704 control via 16-way cable assembly	4 x configurable channels (0-10 V analog input / open-drain digital output/ dry-contact input)	4 × configurable channels (0–10 V analog input / open-drain digital output / dry-contact input)
Iridium Messaging Transport (IMT)	Data transfer packet size flexible from 1 to 100,000 bytes	Data transfer packet size flexible from 1 to 100,000 bytes	Data transfer packet size flexible from 1 to 100,000 bytes	Data transfer packet size flexible from 1 to 100,000 bytes
GNSS	External RF feed for external GNSS decoders via U.FL	External RF feed for external GNSS decoders via U.FL	Built in GNSS receiver. Concurrent reception of 4 GNSS	Built in GNSS receiver. Concurrent reception of 4 GNSS
Protocol	IMT messaging via Iridium interface supported by our libraries.	IMT messaging via Iridium interface supported by our libraries.	IMT via our bespoke AT command set. Or SBD AT commands via internal 9603 emulator	IMT via our bespoke AT command set. Or SBD AT commands via internal 9603 emulator



UK +44 (0) 1452 751 940 www.groundcontrol.com hello@groundcontrol.com



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System and Data Management

Pre-Pay Top Ups and Subscriber Account Management	Providing contract, billing management, and full visibility and control over airtime usage, and provisioning of your connected devices. The pre-pay module for the 9704 enables developers to establish satellite connectivity with full control over airtime spend. Pre-pay in bundles for KB of usage and full cost control, eliminating unnecessary bill shock.				
Developer Support	APIs are provided for all functions within the Cloudloop Platform. Pre-integrated data destinations for seamless integration. Developer documentation and coding examples, more info in links below.		GROUPS	Development Devices Group Development Devices Group Development Devices Group Net * Development Devices Group State * Development Devices Provider (State * Development State * Devel	
Cloudloop Data	unified, device-agnostic messag data transports and platforms.	nagement, the platform provides a ge format supporting a wide range Manage where and how your lot d onsumed.	of Carried and	do (se al. Nature carent) blad is bidge stered (2004) source (2002)202222 with status pline discus choose (2002)2022 Sterey Trop	
Cloudloop Device Manager	provides real-time visibility ir operational health, reducing the	gement and troubleshooting, CDI nto device status, connectivity and e need for costly site visits to remo ble to the Pro variants)	Ted Starger +		
C & Python (RB 9704 only)	Supplying open source C and Python SDKs handling JSPR command sequencing, session and power-mode management, fragmentation/ reassembly, and flow control.				
Products	3	Developer	rSupport	Need More Data?	
RockBLOCK 9704 Patch	RockBLOCK Pro	Developer Center	Code Bank	RockREMOTE Mini	
RockBLOCK 9704 SMA	RockBLOCK Pro OEM	Cloudloop Data	Cloudloop Subscription Manager	RockREMOTE Rugged	

