



RockBLOCK APNT is a rugged, self-contained satellite communication and positioning device that combines the proven reliability of Iridium's global messaging network with the cutting-edge Iridium PNT technology. Unlike traditional GPS/GNSS-based devices, RockBLOCK APNT delivers secure, spoof-resistant positioning, navigation, and timing (PNT) data even in GPS/GNSS-denied or contested environments. Built to withstand the toughest conditions, it's ideal for commercial shipping, mobile asset tracking, and critical applications where trusted, resilient PNT data and global satellite connectivity are essential.

Key Features

GPS/GNSS-Independent Positioning with Iridium PNT

Leverages Iridium's PNT signals for positioning, with cryptographic techniques resilient to jamming and spoofing, anywhere on Earth.

Global Two-Way Satellite Messaging

Enables reliable two-way communication worldwide via the Iridium satellite network, ensuring connectivity regardless of terrestrial coverage.

Configurable Real-Time Tracking

Supports customizable position update intervals ranging from 15 seconds to 24 hours, allowing flexible tracking tailored to mission needs.

Geofencing and Alerting *Coming Soon*

Create custom geofence zones and receive automatic alerts when the device enters or exits predefined areas, enhancing asset security and operational control.

Historical Movement Logging

Records detailed movement history for post-mission analysis, audit trails, and enhanced situational awareness.

Rugged, Military-Grade Design

Constructed with an IP66-rated enclosure to resist water, dust, and harsh environmental conditions for dependable performance in the field.

Low Power Consumption

Optimized for energy efficiency, making it suitable for long deployments in remote locations.

Flexible Integration Options

Offers multiple interfaces and antenna configurations - including built-in and external antenna options - to simplify integration into diverse applications.

Physical & Environmental

Form Factor	Aluminium enclosure
Mounting	121 x 75 x 57 mm
Device Size (LxWxH)	188 x 91 x 57 inc antenna
Weight	400 g (incl. antenna)
Environmental Rating	IP66, suitable for permanent mounting in outdoor locations
Antenna	Optional built-in antenna; or use SMA connector
Operating Temperature	-40C to +70C, <95% RH

Electrical Power

Requirement	5-30V DC, 5 V USB-C
Power Consumption	200mW Idle, 2.5W Max

Interfaces

Digital General Purpose I/O	4 × configurable channels (0–10 V analog input / open-drain digital output / dry-contact input)
Bluetooth	BLE 5.0. App for configuration /status. Future sensor connectivity planned
Serial	RS485 or RS232. Proprietary serial API & support for legacy 9603 AT commands
USB-C	Serial port. MSD file system

Communications

Iridium Messaging Transport (IMT)	Data transfer packet size flexible from 1 to 100,000 bytes
APNT	PNT
GNSS	GNSS supplied via the built in PNT module
Protocol	Serial via AT Command set for IMT message exchange (Including SBD AT Command set emulation)