



ROCKFLEET ASSURED

TRUSTED POSITION ASSURANCE ENABLED BY IRIDIUM PNT

GNSS jamming and spoofing are no longer rare, isolated incidents. Vessels in high-risk or contested waters are encountering interference regularly, and a spoofed receiver can keep reporting coordinates that no longer reflect the vessel's true position. RockFLEET Assured, built by Ground Control, pairs a marine-grade antenna with an independent Iridium PNT receiver, a signal up to 1,000 times stronger than GPS and resistant to spoofing thanks to built-in authentication, continuously comparing it against GNSS. Available as a Full Bundle with a Raymarine chart plotter for direct bridge visibility, or as an Antenna Only option feeding NMEA 2000/0183 data into existing systems, RockFLEET Assured gives bridge teams a trusted, always-on reference the moment GNSS cannot be relied upon.

FEATURES



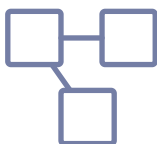
Independent Position
Verification via Iridium PNT



GNSS Spoofing
& Jamming Alerts



Bridge Chart
Plotter Display



Flexible NMEA
Integration



Marine-Grade,
IP67-Rated Build



Continued Operation
During Power Loss

SPECIFICATIONS

PHYSICAL & ENVIRONMENTAL

Form Factor: Low-profile marine-grade smart antenna, deck or pole mounted
Size: 201 mm diameter x 125 mm height
Weight: 1,460 g, including antenna and mounting bracket
Environmental Rating: IP67
Operating Temperature: -40°C to +70°C
Cable: Marine-grade, available up to 100 m

ELECTRICAL POWER

Power Input: Powered by vessel DC supply
Voltage Required: ADU 15–24V DC (cable 0–100 m); BDU 10–30V DC

AC Input: 220V AC via external power supply, kit/integration dependent

CONNECTIVITY

Satellite Transport: Iridium Messaging Transport (IMT), configurable 1–60 minute reporting
Bridge Data Feed: NMEA 2000 and/or NMEA 0183 output
Assured Positioning: Integrated Iridium PNT module (Accuracy: 25–100 m; subject to change)
Commissioning: Bluetooth LE mobile app for setup, configuration, and status reporting

CHART PLOTTER (FULL BUNDLE)

Display: Raymarine Axiom+ 9 chart plotter

Function: Shows Iridium PNT position alongside GNSS position, with track and status indicators

Cable: Supplied Raymarine NMEA connection cable

USE CASES

ASSURED POSITIONING & CHART VIEW

Bridge crews can continuously compare traditional GNSS data against an authenticated Iridium PNT coordinate layer on the onboard chart display, catching subtle drift or spoofing early. This gives commercial shipping fleets and offshore or remote operations alike an independent reference for reliable position reporting, even where terrestrial networks or standard GNSS signals are compromised.

INTEGRITY MONITORING & AUTOMATED ALERTING

RockFLEET Assured triggers an immediate onboard alert the moment GNSS position diverges from the trusted Iridium PNT reference or shows signs of degradation, rather than leaving crews to spot the discrepancy manually. In high-risk corridors, this gives the bridge team a direct, real-time signal that GNSS can no longer be trusted, without relying on the crew to notice it themselves.

BUILT FOR MARITIME DEPLOYMENT

The above-deck unit is IP67-rated and combines GNSS and Iridium PNT positioning with Iridium Messaging Transport in a single terminal, rated for continuous operation. Because positioning and satellite communications are engineered into one marine-grade unit, operators get a straightforward addition to the bridge, backed by an internal battery that keeps it running through vessel power interruptions.

