

PNTGUARD™ BROCHURE



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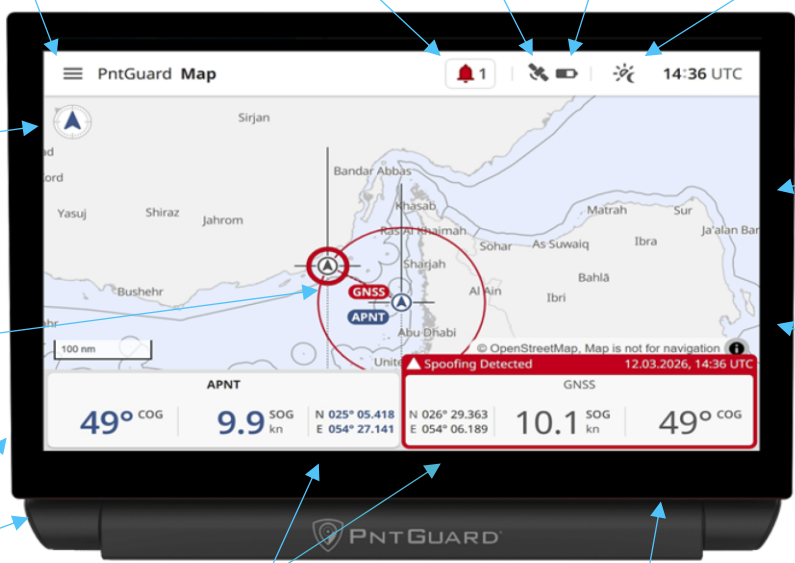
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KNOW WHAT TO TRUST | NAVIGATE WITH CERTAINTY



MENU BUTTON

Primary Options:

- Alarm List
- Settings ►
- Help

Settings Submenu:

- Track Toggle (ON/OFF)
- Export Log Data

Visual and Audible Alerts

Provides real-time threat warnings through multiple channels: on-screen visual indicators (red bell icon with alert count and "Spoofing Detected" banner with timestamp) plus audible alerts to immediately notify users of positioning threats or anomalies.

Iridium Signal Strength Indicator

Displays satellite communication link quality for remote monitoring and data transmission

Above Deck Unit Battery Status

Icon in the top bar shows real-time battery level of the external antenna/receiver unit

Day/Night Mode

Display supports automatic or manual day/night color schemes for optimal visibility in varying light conditions

Orientation toggle

Toggle between North Up and Head Up.

Estimated Position Error (EPE) Visualization

The red circle on the map represents the Estimated Position Error for GNSS, visually showing the uncertainty radius during spoofing or jamming events - helping operators understand positioning confidence

Internal Storage

System maintains 60 days of internal log storage for historical data retention and forensic analysis

Serial Output for NMEA0183 Data

Outputs industry-standard NMEA0183 formatted navigation data (position coordinates, course over ground, speed over ground, timing) via serial connection for seamless integration with marine electronics, chart plotters, autopilots, and other onboard navigation equipment.

Mounting options

Delivered with flush mount kit
*Optional: Hinge mount

Dual Independent Position Sources

Employs two completely independent positioning systems: APNT (Assured Positioning, Navigation, and Timing) and GNSS (Global Navigation Satellite System). Each provides separate position, course, and speed data. This redundancy enables spoofing detection by comparing sources and identifying discrepancies.

Certified

Certified for installation on the bridge according to DNV standard IEC 60945 & IEC 62288

INVISIBLE THREAT | VISIBLE PROTECTION

GNSS threats are growing—silent, sophisticated, and increasingly disruptive. **PntGuard™** cuts through uncertainty, exposing hidden risks and delivering real-time assurance you can act on. When positioning data can't be trusted, **PntGuard** makes it visible, verified, and secure.

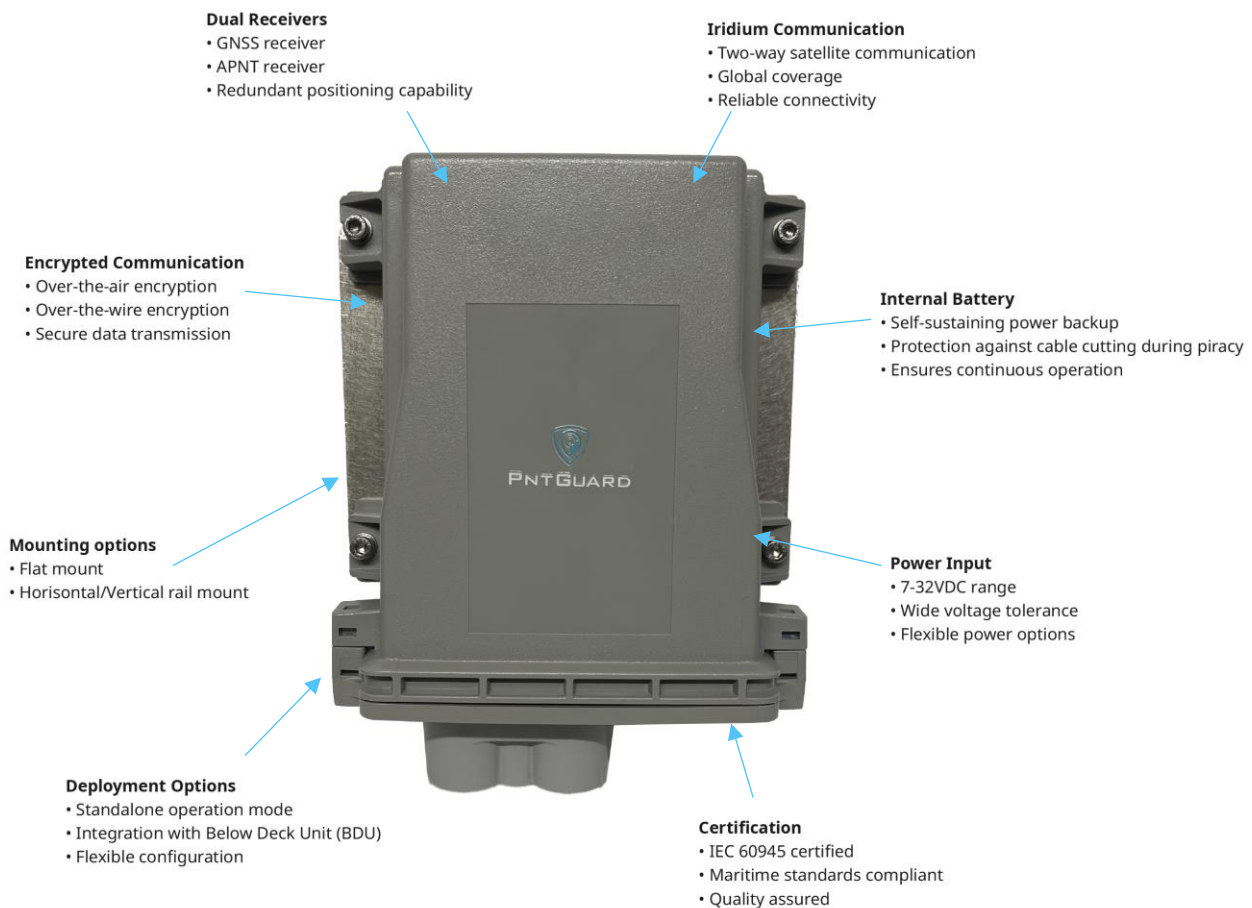


RESILIENT BY ARCHITECTURE | TRUSTED IN OPERATION

PntGuard leverages the global Iridium Communications LEO constellation to deliver a resilient APNT (Assured Positioning, Navigation, and Timing) signal independent of traditional GNSS. Operating from low Earth orbit, this signal is significantly stronger—designed to outperform conventional GNSS by orders of magnitude—and secured with modern cryptographic protection.

The result is uncompromised integrity, persistent availability, and trusted timing and positioning, even in contested or degraded environments.

ENGINEERED FOR EXPOSURE | BUILT FOR ASSURANCE



 Built for Critical Operations

From maritime to infrastructure, PntGuard™ protects where failure is not an option.

 Eliminate GNSS Uncertainty

Instantly detect spoofing and jamming before it impacts your operations.

 See Threats Others Miss

Real-time intelligence that cuts through noise and reveals true signal integrity.

 Act Before It Matters

Early warning, zero guesswork - stay ahead of disruptions, not behind them.

 Confidence, Not Assumption

Make decisions based on verified positioning - not compromised data.

 Deploy Fast. Scale Easily

Seamless integration with existing systems, ready for immediate impact.

SEAMLESS INTEGRATION | TRUSTED BY DESIGN

Engineered for immediate deployment, **PntGuard™** integrates seamlessly into existing systems with true plug-and-play simplicity. Every unit is rigorously tested and verified to perform in the most demanding environments, ensuring reliability when it matters most. Secure, encrypted airtime protects data integrity end-to-end, while standard NMEA 0183 output enables effortless interoperability. The result is more than signal assurance—it's enhanced protection of crew, cargo, and operational continuity, delivered without compromise.

OPERATIONAL INTELLIGENCE | DELIVERED IN REAL TIME

Through the SkyRouter™ platform, PntGuard extends beyond detection into actionable insight. Monitor assets in real time, communicate seamlessly, and automate alerts using configurable geofences and risk profiles tailored to your operations. A dynamic, live threat map provides continuous situational awareness, enabling faster and more informed decisions.

For full integration flexibility, all data is accessible via structured JSON schema and can be streamed in real time through WebSocket to your CMS or other situational awareness platforms—ensuring PntGuard fits directly into your existing operational ecosystem.



ENGINEERED FOR THE EDGE | BUILT FOR THE FIELD





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