

ANTI-JAMMING ANTI-SPOOFING ELECTRONICS MODULE FOR ASSURED POSITIONING NAVIGATION AND TIMING (A-PNT)



TwoSents™



GPS L1, L2, L5



GLONASS



GALILEO



BEIDOU



QZSS



IRNSS NAVIC

**ITAR
FREE**

**UNLIMITED NUMBER
OF JAMMERS AND
SPOOFERS**

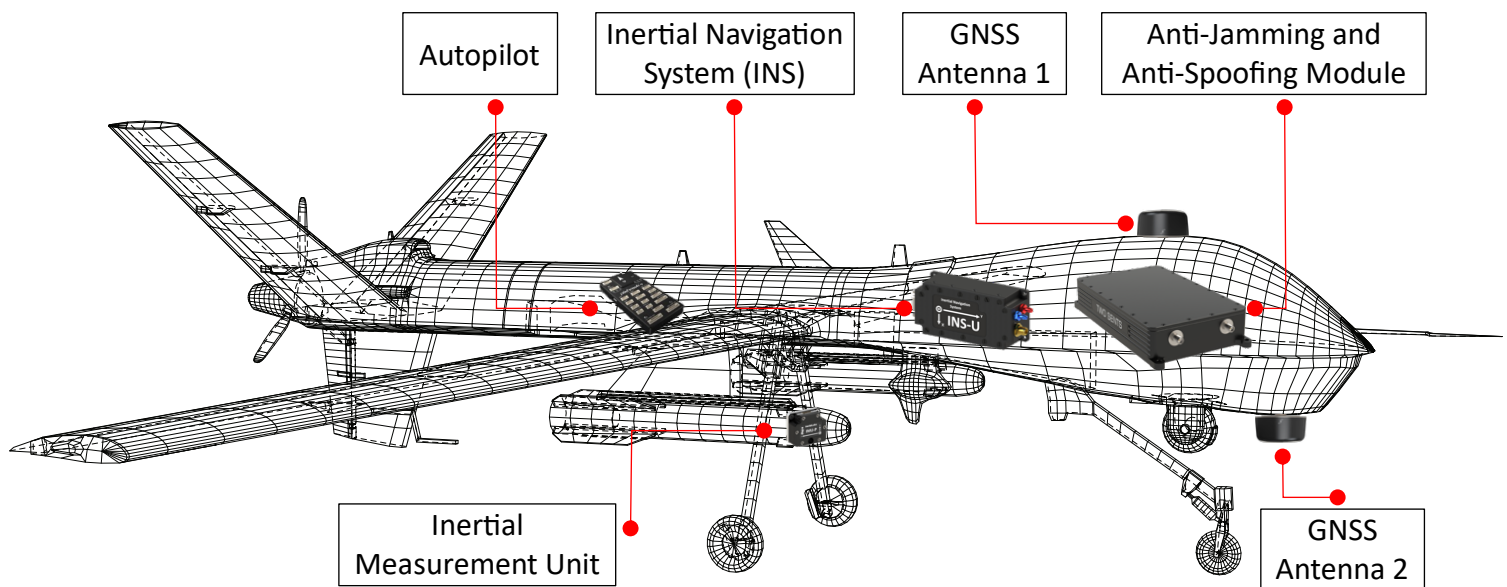
The **TwoSents™** is new, patented Anti-Jamming and Anti-Spoofing Advanced Electronics Module, designed and engineered for Assured Positioning, Navigation, and Timing (APNT) across diverse and GNSS jammed, spoofed and denied environments. This Module incorporates new revolutionary technology to detect, mitigate and filter unlimited number of sources of jamming and spoofing alongside state-of-the-art signal processing capabilities, delivering enhanced APNT performance and accuracy for critical applications. The **TwoSents™** is operational in all available GNSS bands and constellations.

BENEFITS



- Very low latency;
- Up to 50 dB interferences suppression;
- Simultaneous L1, L2 and L5 bands;
- GPS, GLO, GAL, BDS, QZSS, NAVIC constellations;
- Adaptive digital filtering;
- Mitigation of unlimited number of jammers and spoofers.

The TwoSents™ technology minimizes signal distortions, resulting in superior GNSS positioning accuracy. TwoSents™ was designed to maintain reliable performance in challenging and dynamic environments. This Module utilize built-in security features protect against signal tampering and unauthorized access.



TwoSents™ Module is very easy to integrate solution. This module needs to be connected to two standard GNSS antennas and compatible with all produced by Inertial Labs single and dual GNSS antenna-based GPS-aided Inertial Navigation Systems and with commercially available Inertial Navigation Systems and Autopilots, produced by other vendors.

KEY SPECIFICATIONS

PROTECTED GNSS BANDS AND CONSTELLATIONS	GPS: L1, L2, L5; Galileo: E1, E5a, E5b; GLONASS: G1, G2, G3; BeiDou B1I, B3I, B1C, B2a, B2b; NAVIC IRNSS; QZSS
KEY PERFORMANCE	- Jammer & Spoofers Suppression: up to 50 dB (wideband) - Simultaneous Jammers and Spoofers Tracking: Unlimited - Signal Reconstruction: Real-time, adaptive - Signal Confidence: Dynamic scoring per output stream
GENERAL	- Dimensions: 150 mm × 92 mm × 32 mm - Weight: 500 g - Power Consumption: < 10 W - Operating Voltage: 9 – 36 V - Operating Temperature: -40°C to +85°C - Data Interfaces: RS422, USB 2.0 - Antenna Ports: 2 external (top and bottom)

MECHANICAL DRAWING

