



Mini ADA

Reduced SWaP Jam Resistant
GNSS System for Tactical Platforms





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GENERAL

The Mini ADA provides a GNSS anti-jamming solution, incorporating an electronic unit and a four-element antenna array in an affordable, reduced SWaP single Line Replaceable Unit (LRU). The Mini ADA employs cutting-edge technology to achieve the highest possible jamming resistance and GNSS accuracy, under the most stringent multi-jammer scenarios. To counter the effects of all types of GNSS interference and jamming, the Mini ADA uses adaptive processing techniques forming spatial nulls to suppress jammers while maintaining signals from GNSS satellites to yield the highest possible GNSS anti-jam performance. The Mini ADA is designed and tested to function as an outdoor unit, to withstand environmental conditions typical to ground applications such as MBTs, IFV/APC, C4ISR vehicles, UGVs, radars, and more, including Ingress Protection per IP65.

GNSS ANTI-JAM ENHANCED EXPERIENCE

IAI has over 20 years of proven experience in supplying top-tier GNSS anti-jam solutions for the most challenging requirements, and vast experience in integrating immune navigation solutions into airborne, surface, maritime and guided munitions. IAI's GNSS anti-jam solutions are based on its unique end-to-end solution which includes simulation environment of the operational arena, Control Reception Pattern Antenna (CRPA) – Passive, Active or Conformal types, Antenna Electronics (AE), and Integration Support.

KEY FEATURES

- Affordable jam-resistant solution for tactical airborne applications
- Reduced SWaP
- Multi-element Controlled Reception Pattern Antenna (CRPA)
- Simultaneous L1 & L2 processing, supporting external military receiver
- Integral GPS receiver
- RF output with adjustable power level to support external GNSS receivers
- High reliability
- Designed for missiles, UAVs, and more
- Combat proven digital technology
- Available COTS or customized to customer's unique requirements
- ITAR Free

CHARACTERISTICS

ENVIRONMENTAL CHARACTERISTICS

- Temperature -40 °C to +71 °C (Operational)
- Ingress protection: IP65 (Heavy Rain)
- Compatible with MIL-STD-810G
- Cooling: Convection

PHYSICAL CHARACTERISTICS

- Power consumption <30 W@28 VDC (MIL-STD-1275B)
- Weight < 1.3 kg/2.8 lbs
- Size <110 mm (4.3") x 110 mm (4.3") x 71 mm (2.7")

INTERFACES

- Input Power
- RF Out

12.25



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