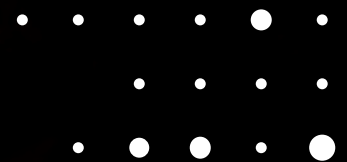


ADA

Top-Notch Jam-Resistant GNSS System for Airborne Platforms





ADA

Top-Notch Jam-Resistant GNSS System for Airborne Platforms

PRODUCT DESCRIPTION

The ADA provides a top-notch GNSS anti-jamming solution, incorporating Antenna Electronics (AE) and a multi-element antenna array (CRPA) in one of the best GNSS anti-jamming solutions currently available in the market. The 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 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 ADA system performance was rigorously tested and validated in the laboratory and in field tests and is in use in a variety of operational systems such as jet fighters, helicopters, UAVs, missiles, and more.

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.

INCREASING THREATS

GNSS signal jamming and interference, easily achieved by cheap, low-end equipment, can seriously degrade GNSS Position, Navigation and Timing (PNT) even to the point of total solution denial.

KEY FEATURES

- Superior GNSS anti-jam protection
- Multi-element Controlled Reception Pattern Antenna (CRPA)
- Dual-band simultaneous processing compatible with SAASM/P(Y) code and M-Code receivers
- Integral GPS receiver
- RF output with adjustable power level to support external GNSS receivers
- High reliability
- Designed for jets, helicopters, missiles, UAVs, and more
- Combat proven digital technology
- Available COTS or customized to customer's unique requirements
- Digital Antenna Electronics (DAE) interface to EGI's receivers
- ITAR Free

CHARACTERISTICS

- Temperature -40 °C to +71 °C
- Altitude: >60,000 ft
- Compatible with MIL-STD-810G
- Cooling: Convection

PHYSICAL CHARACTERISTICS AE:

- Input Power 45 W@28 VDC
- Total Weight < 2.6 kg/5.7 lbs
- Size < 230 mm (9") x 190 mm (7.4") x 52 mm (2")

CRPA:

- Variable weights and sizes

INTERFACES:

- Input Power (18-36 VDC)
- RF Out
- Multiple RF In
- Control (RS-422, Ethernet, 1PPS)

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MLM DIVISION
WWW.IAI.CO.IL
MLM_MARKETING@IAI.CO.IL