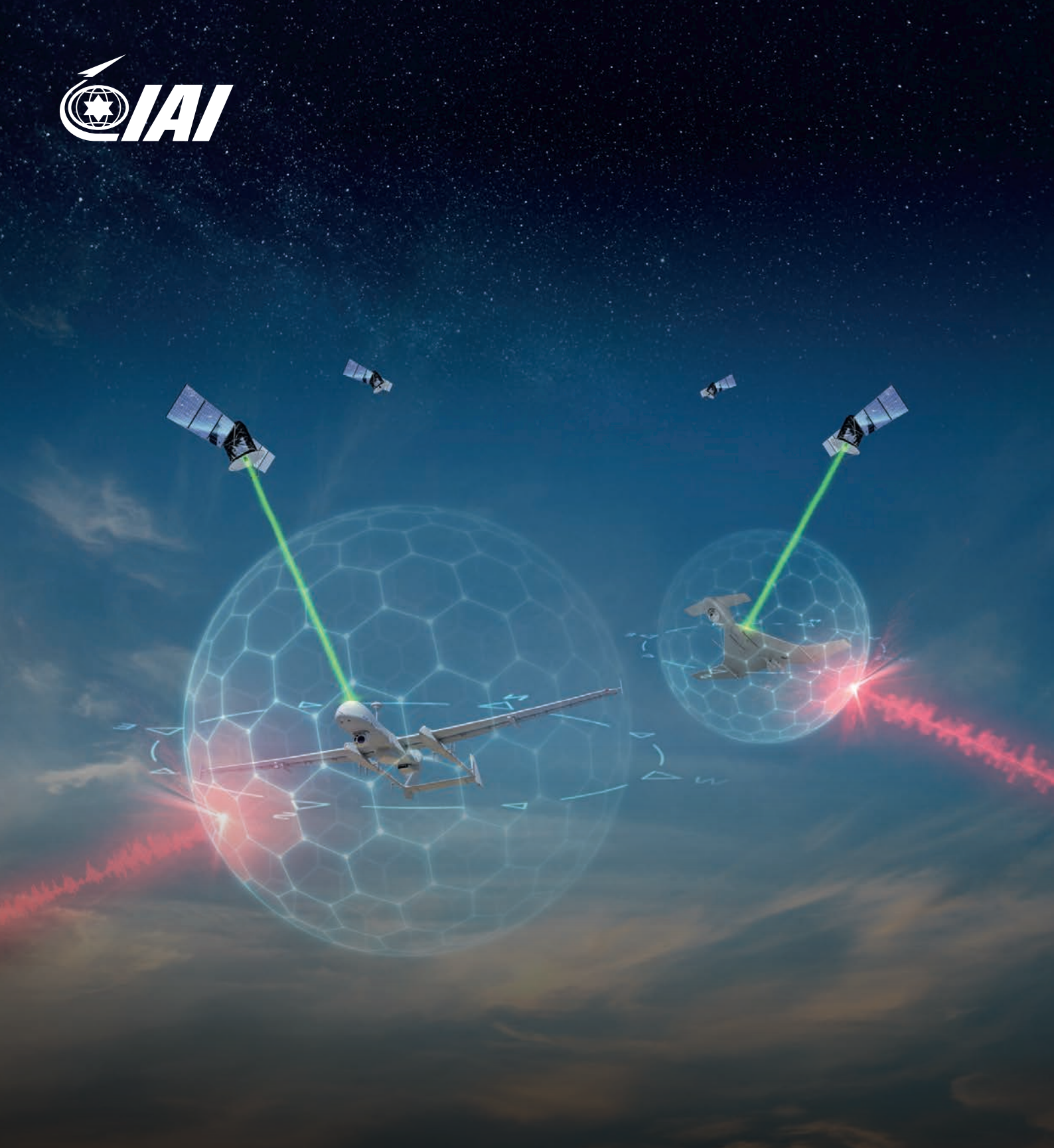

Compact ADA

Reduced SWaP Jam Resistant GNSS System for Airborne Tactical Platforms

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GENERAL

The Compact ADA provides a GNSS anti-jamming solution, incorporating the antenna electronics (AE) and a multi-element antenna array (CRPA) in an affordable, reduced SWaP solution.
The Compact ADA employs cutting-edge technology, achieving 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 Compact 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 Compact ADA system performance was rigorously tested and validated in the laboratory and in field tests and is in use in a variety of operational tactical airborne platforms such as 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.

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
- Compatible with MIL-STD-810G
- Cooling: Convection

PHYSICAL CHARACTERISTICS AE:
- 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")

CRPA:
- Variable weights and sizes.

INTERFACES
- Input Power
- RF Out

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