

# ADA-0

Jam Resistant GNSS System for Surface Applications



*Where Courage Meets Technology*

# ADA-O

## Jam Resistant GNSS System for Surface Applications

### Product Summary

Modern ground assets rely on continuous Global Navigation Satellite Systems (GNSS) availability for Positioning, Navigation and Timing (PNT). GNSS signal disruption, easily achieved by low-end equipment, means **loss of network connectivity and degradation of C2 capabilities**.

IAI has over 15 years of proven experience in supplying top-tier GNSS and anti-jam solutions for the most demanding requirements, and vast experience in integrating immune navigation solutions into airborne (manned and UAV), surface, maritime and guided munitions.

**ADA-O** is a single-enclosure Line Replaceable Unit (LRU) anti-jam GNSS solution, designed for land application susceptible to high levels of GNSS signal interference, such as fixed-site and deployable C2 infrastructure, reconnaissance vehicles, Main Battle Tanks (MBT) and artillery batteries

### Key Features

- Operationally deployed, single enclosure, tested for land-based environmental conditions
- Multiple element Controlled Reception Pattern Antenna (CRPA)
- Advanced and field proven spatial filtering algorithms delivering high resistance performance
- RF feed of jam resistant signal to customer's existing or new GNSS receivers, with support for L1, L2, SAASM/P(Y) code
- Provision for M-code (SW/FW upgrades only of existing hardware)
- Integral GNSS-IP receiver for tailored applications and even higher levels of resistance.
- Rigorously tested in extensive field tests and operational use

### Technical Characteristics

- Dimensions : 310x310x100mm
  - Weight < 8.5kg
  - Temperature -40°C to +71°C
  - Input power 45W@28VD°C
  - Ingress protection : IP65 heavy rain (provision for IP67)
  - MTBF > 10,000 operation hours and low Life Cycle Cost
- Compatible with MIL-STD-810G, MIL-STD-1275B & MIL-STD-461F