

# Electronic Support Measures

## Signal Processing Mezzanines



### SOF ES Systems

**Modular ESM/ELINT systems for use in manned and unmanned airborne, ground, and shipborne monitoring systems**

- Detects, identifies, locates, and tracks RF Signals over wide instantaneous bandwidths
- Multiple IF channels in common hardware infrastructure
- RF Signals are collected at the sensor antennas and converted into multiple IF bands
- Uses Finder software
- Support for a variety of interfaces tying into existing platform infrastructure
- Support for receiving and decoding AIS messages for monitoring shipping traffic

**IF, ADF (Analog), and AIS Receiver Mezzanines for SOF ES Systems**

- Signal Processing Receiver XMCs are a family of mezzanines that form the core elements of the Aeronix SOF ES (Electronic Support) systems
- Combines an application tailored IF/analog signal conditioning front end with a common FPGA-based backend which provides custom digital signal processing to perform the desired ES (and/or AIS) functions
- Evolved from the Copperfield 2 series of modular ESM receivers originally developed for the Naval Research Laboratory for use in RADAR surveillance applications

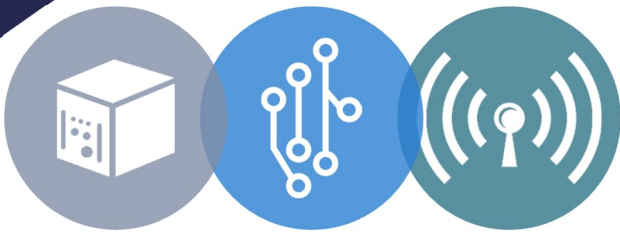
### FinderPlus™

**Multi-band airborne system that detects, tracks, identifies pulsed RF and IF signals**

- RF front end and Omni antenna
- FinderPlus™ Server/Receiver (FSR) housed in a single 9U (15.25") high, 22" deep, 19" rack-mount enclosure
- Two Dual 160 MHz IF Receivers, each housed in a single 3U (5.25") high, 22" deep 19" rack-mount enclosure
- 1 GHz Wideband IF Receiver housed in a single 3U (5.25") high, 22" deep 19" rack-mount enclosure

### Compact, Mobile Platforms Power Detection, Tracking and Identification of RF Signals

**Aeronix's modular Electronic Support Measures (ESM) products are used in airborne, ground, and shipborne monitoring systems around the world.**



An ATG Company



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