The Hammer system is an open architecture airborne signals intelligence (SIGINT) payload that detects, locates, and identifies emitters to provide full-spectrum awareness and actionable intelligence to operational users. It can be carried under the aircraft wing or internally, via a rack-mounted configuration. This full-system solution includes a processor, antennas, ground station, aircraft A-Kit interface, associated support equipment, and engineering services. The Hammer system delivers tomorrow’s capability, today.

Delivering full-spectrum awareness and actionable intelligence

Key features and benefits

- System versatility enables the support of full-spectrum operational scenarios, including electronic order of battle generation and precision geolocation.
- Mature technology leveraged from multiple programs reduces development costs, risk, and time-to-field.
- Flexible hardware enables installation under the wing (pod), or internally (rack-mounted chassis).
- Self-contained, integrated packaging provides space for additional payloads and increased time-on-station.
- Software-driven operation with in-flight reconfigurability enables operators to adapt in real time as missions evolve.
- Options for Line-Of-Sight (LOS) and Beyond-Line-Of-Sight (BLOS) networks permit operation at home and in austere deployed environments.
- Modular, open architecture uses commercial hardware for increased reliability.
- Flexible and intuitive software design integrates seamlessly into existing command and control infrastructures and workstations.
- Software application framework allows for rapid adaptation to new threats and missions.

Specifications

- 3U OpenVPX standards based processing
- SWAP: <1200 Watts, <300 lbs
- Wideband detection, identification, copy and Pre-D data collection
- Conventional and modern signal exploitation
- Single ship geolocation
- 360-degree field of view
- Unclassified at power-off
- Conduction cooled for high-reliability in deployed environments
- Easy access maintenance port for unclassified flight-line operations
- Cyber secure via risk management framework
- Ground station terminal units, including real-time PED controllers and post-processing workstations

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