AN/ALQ-217 Electronic Support Measures System
Unparalleled support for the warfighter
Lockheed Martin is a leading provider of advanced technology products, services and systems integration solutions for defense, civil and commercial customers worldwide.

Sharply listening. Swiftly identifying. Precisely locating.

Lockheed Martin’s AN/ALQ-217 Electronic Support Measures (ESM) system functions as the highly sophisticated ears of advanced tactical aircraft. A passive sensor system, the AN/ALQ-217 protects the warfighter by identifying and locating sources of radio frequency (RF) emission and providing a full range of ESM operation.

The AN/ALQ-217 employs open systems architecture and commercial-off-the-shelf processing to ensure long-term supportability and growth. It is composed of four antennas, four Active Front Ends (AFE), and a combined receiver and processor. The subsystem architecture divides the RF operating range into three bands: low, mid and high.

**Capabilities**

- **Signal Detection**
  Intercepts and detects platform RF while maintaining operability in presence of on-board emitters.

- **Identification**
  Accurately identifies the type, function and mode of intercepted emitters. Swift, precise information increases situational awareness by five to 10 times. Reliability of information translates to high-confidence fratricide avoidance.

- **Location**
  Unerring location techniques pinpoint emitter position, giving the warfighter both geographic location and a range estimate faster and more accurately than traditional methods.

- **Self-Monitoring**
  Automatic testing monitors system status. Continuous evaluation of system status during operation ensures failure conditions can be identified.

- **Reprogrammable**
  Facilitates both in-flight operator control and mission data reloads.

**Advantages**

The AN/ALQ-217, found on the U.S. Navy’s E-2C Hawkeye 2000 and international P-3C type aircraft, offers the warfighter these significant attributes:

- State-of-the-art performance in dense littoral and open ocean environments
- Adaptable system performance allows for dynamic user prioritization and mission customization
- Hardware and software easily tailored to new platforms
- Fast reaction time helps increase survivability of strike force
- High reliability: > 1400 hours mean time between failure (MTBF)
- Easily maintained, the system automatically self-calibrates
- Enables rapid identification of critical radar threats
- Modular architecture allows for growth functions
- Capable of digital signal processing
- SEI-certified

**Characteristics**

- **Total Weight**: 202 lb
- **Volume**: 6.4 cubic ft
- **Power**: 548 W
- **Cooling**: 2.75 lb/min at 70°F

**Features**

- **Survivability**
- **Situational Awareness**
- **Reduced Operator Workload**
- **Mission Effectiveness**

“AN/ALQ-217 is operational and deployed in some of today’s most challenging environments.”