



AN/ALQ-217

ELECTRONIC SUPPORT MEASURES

UNPARALLELED SUPPORT FOR THE WARFIGHTER

LOCKHEED MARTIN 
We never forget who we're working for®



SHARPLY LISTENING. SWIFTLY IDENTIFYING. PRECISELY LOCATING.

The Lockheed Martin AN/ALQ-217 Electronic Support Measures (ESM) system functions as the highly sophisticated ears of advanced tactical aircraft. As 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.

40 YEARS OF EXPERIENCE

Lockheed Martin is a leading provider of Electronic warfare (EW) products including AN/ALR-76 (S-3B Viking and EP-3E Aries II), AN/APR-48A (AH-64D Longbow Apache), AN/APR-50 (B-2 Bomber), AN/ALQ-210 (MH-60R Multi-Mission Helicopter), AN/ALQ-217 (E-2C/D Hawkeye), Canadian CP-140 ALQ-507 and Maritime Helicopter Program ALQ-230.

**AN/ALQ-217 IS OPERATIONAL AND
DEPLOYED IN SOME OF TODAY'S MOST
CHALLENGING ENVIRONMENTS.**

OPERATIONAL OVERVIEW

The passive ALQ-217 Electronic Support Measures system autonomously scans the environment allowing for a high probability of detection and accurate identification. The system operation is completely tailorable through Mission Data Loads which can be reloaded in flight for adapting to each specific geographic region. 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. Full 360° acquisition coverage exists in each band, facilitating powerful performance. The AN/ALQ-217 is in production and available for domestic and international sales.

ADVANTAGES

The AN/ALQ-217, found on the U.S. and international Navy's E-2C and new E-2D Advanced Hawkeye aircraft, offers the warfighter these significant attributes:

- Unparalleled 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

CAPABILITIES

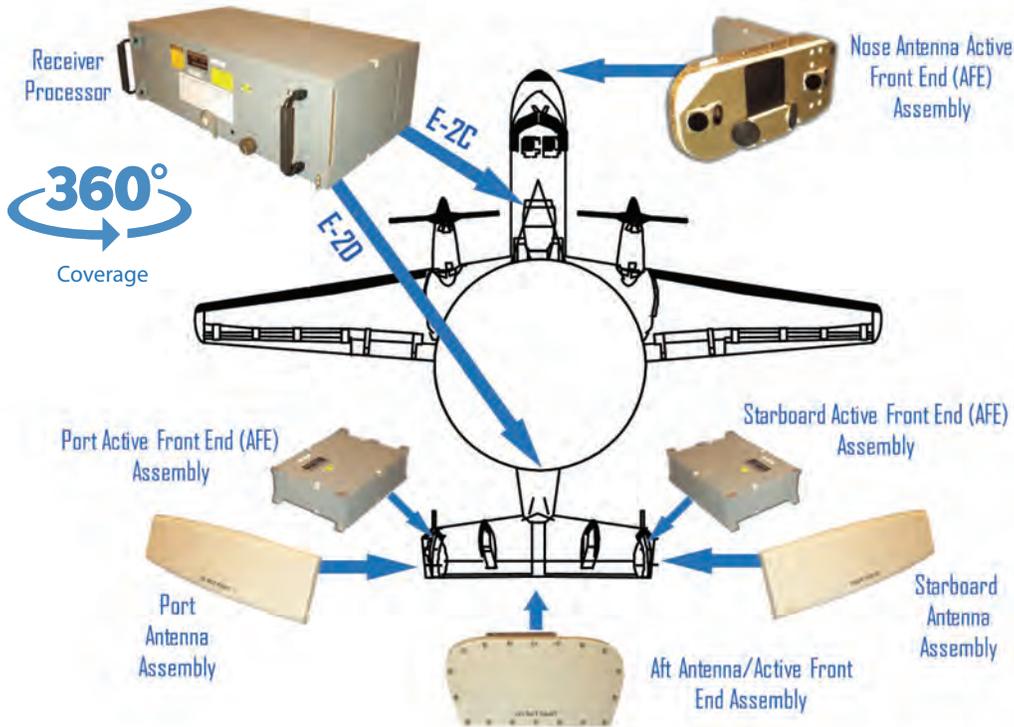
- **Signal Detection:** Intercepts and detects platform RF while maintaining operability in presence of on-board emitters.
- **Direction Finding:** Instant and accurate Angle of Arrival (AoA) information is reported to the operator and also aids in weapon system identification.
- **Identification:** Reliably identifies the type, function, and mode of the intercepted emitters improving situational awareness by five to 10 times.
- **Location:** Unerring location techniques pinpoint emitter position faster and more accurate than traditional methods.

FEATURES

- Rapid response time
- Accurate angle of arrival
- Accurate passive geo-location
- High mean time between failures
- ELINT fidelity collection
- Adjustable operator Interface
- Open architecture with latest multi-core processor
- Self-calibration continuously optimizes performance

BENEFITS

- Improved survivability
- Enhanced and timely situational awareness
- Fully autonomous - reduces operator workload
- Increased mission effectiveness



CHARACTERISTICS

- Total Weight 202 lbs
- Power 548 W
- Volume 6.4 cubic ft
- Cooling2.75 lb/min at 70°F
- Mean Time Between Failure (MTBF).....>1800hrs

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