CMMI 5

Lockheed Martin Systems Integration - Owego

Lockheed Martin Corporation
1801 State Route 17C
Owego, NY 13827-3998
Telephone: 607-751-3135
www.lockheedmartin.com

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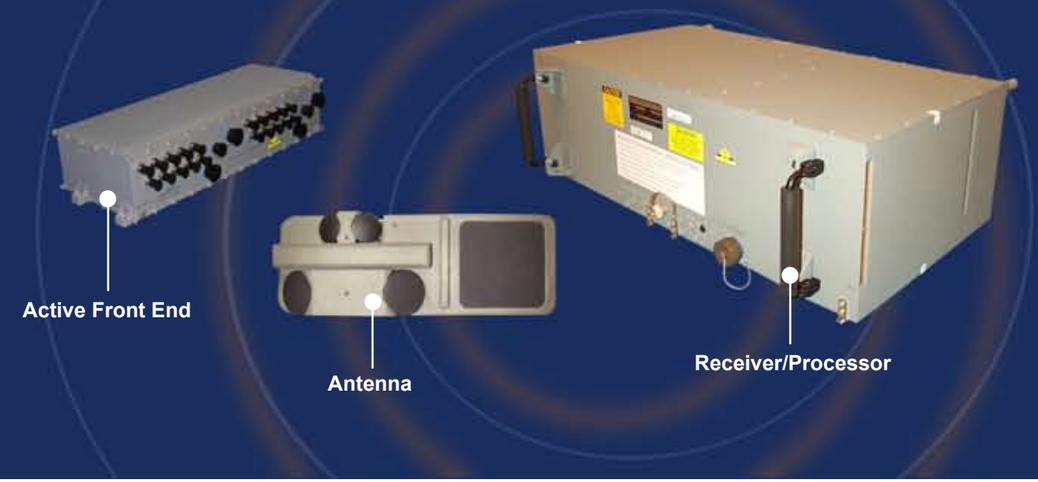
LOCKHEED MARTIN
We never forget who we're working for®

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.

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.

Characteristics

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

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

Features

Benefits	Rapid Response Time	Accurate Identification and Threat Warning	Accurate Angle of Arrival	Accurate Passive Location	High Mean Time Between Failures	Lightweight
Survivability	✓	✓	✓	✓	✓	✓
Situational Awareness		✓	✓	✓		
Reduced Operator Workload		✓	✓	✓		
Mission Effectiveness	✓	✓	✓	✓	✓	✓

"AN/ALQ-217 is operational and deployed in some of today's most challenging environments."

40 Years of EW Experience

Lockheed Martin is a leading provider of 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 and Maritime Helicopter Program.

Our experience allows us to provide you with complete, effective EW solutions.