AN/ALQ-250 Eagle Passive Active Warning Survivability System (EPAWSS)

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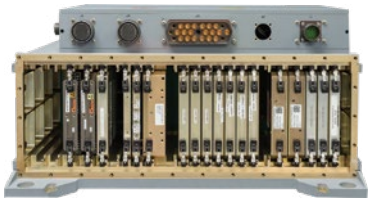
AN/ALQ-250 EPAWSS

An integrated all-digital system, EPAWSS provides advanced aircraft protection and situational awareness to protect F-15EX and F-15E aircraft. Fully integrated with radar warning, geo-location and increased chaff and flare capability, EPAWSS detects and defeats surface and airborne threats in signal-dense and highly contested environments.



LRU 1

LRU 2

Advanced aircraft protection and situational awareness maximizing mission survivability

How it works

The EPAWSS system collects and processes electromagnetic energy to instantaneously capture a 360-degree aerial field of view to provide a comprehensive picture of the battlespace. This gives the pilot maximum situational awareness, helping to identify, monitor, analyze, and rapidly respond to potential threats. EPAWSS has a broad instantaneous bandwidth and high speed scanning capability to detect all RF threat classes including low probability of intercept and modern agile threats. To counter threats, the EPAWSS electronic countermeasure technique toolbox leverages many years of proven techniques and can be programmed to defeat legacy and modern threats.

Experience

Built on a foundation of more than 60 years of experience, BAE Systems has emerged as the world leader in electronic warfare, flying systems on more than 80 platforms. Unsurpassed in the field across the electromagnetic spectrum, our state-of-the-art technology maximizes mission survivability for the warfighter, providing end-to-end capabilities to counter current and emerging threats. Innovating to meet the future needs of the warfighter, BAE Systems has produced more than 10,000 tactical electronic warfare systems.

Key features and benefits

- Leverages digital electronic warfare technology from fifth-generation fighter aircraft
- Offensive and defensive digital electronic warfare capabilities
- Modular, scalable, open-system architecture
- All-aspect, broadband radar warning and geolocation
- Multi-spectral, radio frequency (RF) and infrared (IR) countermeasures
- Simultaneous jamming without interfering with radar and radar warning receiver
- Interoperable with active electronically scanned array radar
- Throughput and memory reserve for capability growth
- Fault isolation down to a Line Replaceable Module (LRM) supporting two-level maintenance
- Integrates radar warning and countermeasures into one system
- Faster countermeasures response
- Increased situational awareness
- Reduces F-15 electronic warfare footprint
- 50% more chaff and flares than aircraft today
- Ability to identify and counter future threats

For more information contact:
BAE Systems
Nick Myers
95 Canal Street
Nashua, NH 03064
T: 603 885 5455 | **M**: 703 350 5900
E: nick.myers@baesystems.com
W: baesystems.com/epawss
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