

Eagle Passive Active Warning Survivability System (EPAWSS)

Electronic warfare/**countermeasure** system

Maximizing mission
effectiveness and survivability
for the U.S. Air Force F-15 fleet



LRU 1



LRU 2

Features

- 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
- Multispectral, 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

Benefits

- Integrates radar warning and countermeasures into one system
- Faster countermeasures response
- Increased situational awareness
- Improved reliability
- Reduces F-15 electronic warfare footprint
- 50% more chaff and flares than aircraft today
- Ability to identify and counter future threats
- Allows F-15 to work cooperatively with other U.S. Air Force aircraft

Eagle Passive Active Warning Survivability System

An integrated all-digital system, EPAWSS provides advanced aircraft protection and significantly improved situational awareness to protect F-15C and F-15E aircraft. Equipped with offensive and defensive electronic warfare options, fully integrated radar warning, geo-location and increased chaff and flare capability, EPAWSS detects and defeats surface and airborne threats in signal-dense contested and highly contested environments.

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. Using advanced avionics and sensors, the system takes this a step further by detecting and geo-locating electronic emitters to give pilots the option to evade, engage, counter or jam 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.



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