

SPEAR™ AECEM Pod

Self-Protection & Electronic Attack System for Airborne Platforms

High-End Modular Electronic Countermeasures for Fighter and Transport Aircraft



Electronic Countermeasures for Aircraft Defense

Today's aircraft face the challenge of rapidly evolving battlespaces in which a multi-layered defense is critical for their survival. Electronic countermeasures, including advanced jamming solutions, provide an important protection layer. Overcoming enemy air defense and communication systems, they safeguard the aircraft and its crew while enabling successful mission completion.

Effective Response

Based on the combat-proven SPEAR™ product family, the modular SPEAR AECEM Pod provides powerful and modular Self-protection, Electronic Attack and Reconnaissance capabilities enabling fighter and transport aircraft self-protection and survivability. The SPEAR AECEM Pod creates a complete threat picture and provides sophisticated radar and multi-threat jamming techniques that deceive and suppress enemy defense systems. It can operate independently as a standalone system or as part of a complete EW suite.

Elbit Systems™

ISTAR & EW - Elisra

SPEAR™ AECEM Pod

Self-Protection System & Electronic Attack

Technological Advantages

Lightweight and modular, the SPEAR AECEM Pod utilizes multiple digital receivers and Digital Radio Frequency Memory (DRFM) channels. The Pod's Solid State Phased Array (SSPA) transmitters enable high-power, directional narrow beam-steered transmissions over a wide spectrum. Supporting simple preparation and modification of mission data, the system allows complete customer independence.

Threat Handling - Modern and Advanced

- Dense signal environments
- RF Guided Threats – SAM, AAA, and Fire Control Radars
- Airborne, ground, and naval radar modes - Search, Acquisition, Track, and Guidance
- Electronic Steering Radars (AESA, PESA)



Features

- State-of-the-art wideband digital receivers
- Advanced DRFM technology
- Full frequency band coverage, wide spatial coverage
- High ERP
- Wide range of effective techniques
- Fast, autonomous directional ECM/EA response
- Fine Directional Finding
- Simultaneous handling of multiple threats
- Easy integration with existing on-board EW systems
- Multi-platform commonality
- Loading and debriefing tools

Technical Specifications

- MIL-STD-1760 (Electrical)
- MIL-STD-8591 (Mechanical & Structural)
- Interfaces: MIL-STD-1553B/LAN
- RWR/Radar Blanking/Look-through discrete

Physical Characteristics

- Self-contained cooling system
- Aerodynamic design
- Dimensions – Ø41 x 220 cm
- Lightweight & compact – 140 kg
- 14/30-inch lug spacing



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