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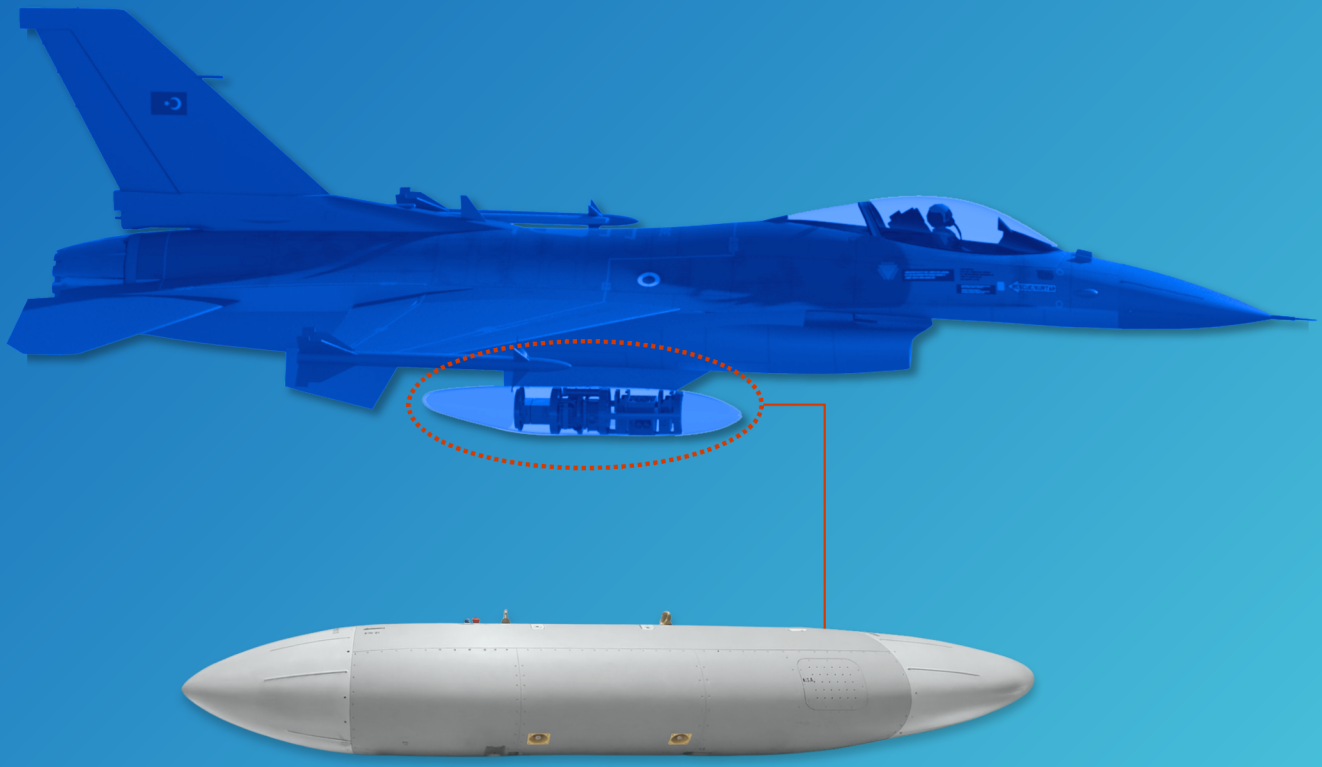
EHPOD

SELF-PROTECTION ELECTRONIC WARFARE POD FOR FIGHTER JETS



EHPOD

SELF-PROTECTION ELECTRONIC WARFARE POD FOR FIGHTER JETS

EHPOD is a Self-Protection Electronic Warfare (EW) Pod developed for fighter jets to counter radar-guided threats in hostile electromagnetic environments. The system integrates Radar Warning Receiver (RWR) and Electronic Countermeasure (ECM) capabilities within a single pod and is designed to operate independently to protect the platform.

MISSION ROLE
Detection, Identification and Classification of Hostile Radar Emissions
Adaptable, Mission-Programmable Countermeasures
Protection Against Radar-Guided Missile Threats
Enhanced Aircraft Survivability in Contested Environments

Radar Warning Receiver (RWR) Subsystem

The RWR subsystem includes wideband and narrowband receivers. The Wideband receiver covers all relevant frequency bands, while the narrowband receiver scans selected bands to exract critical signal parameters such as frequency, pulse width (PW), pulse repetition interval (PRI), and direction/angle of arrival for threat classification and emitter identification.

Electronic Countermeasure (ECM) Subsystem

The ECM subsystem features wide instantaneous bandwidth and Digital Radio Frequency Memory (DRFM) architecture. Mission-specific threats and countermeasure techniques can be programmed based on threat analysis outputs to apply effective jamming and deception.

Integrated Self-Protection Concept

EHPOD operates in coordination with the Countermeasure Dispensing System (CMDS) to provide a layered self-protection capability. The integrated operation of RWR, ECM, and expendable countermeasures ensures comprehensive protection against modern air defense systems.

OPERATIONAL BENEFITS
Autonomous Self-Protection EW Capability
Adaptable, Mission-Programmable Countermeasures
Effective Defense Against Modern Radar Threats
Contribution to Continuous Electronic Warfare Database Updates

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