# aselsan

## AIRBORNE EARLY WARNING & CONTROL ELECTRONIC SUPPORT MEASURES (ESM) SYSTEM







# AIRBORNE EARLY WARNING & CONTROL

### ADELOAN EON Outers enterstically detects interprets identical a DMD

ASELSAN ESM System automatically detects, intercepts, identifies, alerts, localizes, classifies, tracks, analyzes and records the electromagnetic signals which are received from any direction in the horizontal plane in the operating frequency range

The system is designed to fulfill the following roles

- On Line Target Generation (ESM)
- Radar Warning Receiver (RWR)
- On-Line ELINT Analysis
- Off-Line ELINT Analysis

#### **On Line Target Generation**

- Utilizes a combination of high sensitivity, wide frequency coverage receivers
- Accurate direction finding over the wide frequency spectrum
- Implements user defined search and scan strategies which control the extent of the frequency coverage and system priorities
- Automatically generates, maintains and reports the current Electronic Order of Battle
- · Supports external intervention by the operator

#### **RWR Functionality**

- Quickly detects, identifies and reports any possible threat to the aircraft
- The system reserves top priority in all of the system functional paths for any possible RWR threats
- Actual RWR threats are defined by the operator using the PFMG

#### **ELINT Analysis**

- MOP Analysis
- Polarization Determination
- Emitter Scan Processing
- Inter-Pulse Analysis
- Supports external analysis tools
  - Records full pulse descriptor words
  - Records Intra-Pulse Samples

#### **ESM System Generic Performance**

- Wide Operating Frequency Coverage
- High sensitivity different BWs.
- High DF Accuracy Performance with DTOA for pulsed signals
- Amplitude comparison method for CW signals
- Interferometer method for communication band signal DF measurement
- Low System Reaction time
- 360° azimuthal coverage for Surveillance and RWR functions
- Wide Dynamic Range
- Compliant with Mil-Std 704E/T
- High instantanous frequency coverage with channellized receiver.
- Accurate Measurement of Electronic Parameters.

