



AIR DEFENSE SEARCH RADARS

ALP 300-G, is a new generation S-Band radar developed for long range early warning, with its AESA and digital beamforming antenna architecture. ALP 300-G has the ability to detect and track air breathing targets, ballistic missiles, anti-radiation missiles and stealth/low RCS targets from very long ranges.

AESA and Digital Beam Foming architecture together with Multi Channel Receivers allows to produce simultenous beams in space paving the way for multi-function and multi-mission operations. ALP 300-G uses weather information to optimize its detection and tracking performance. ALP 300-G is a highly mobile standalone system with its radar, command control/communication and power systems on tactical trucks without mounting/demounting operations for deployment and marchorder. ALP 300-G can be connected to radar networks and can exchange 3D air picture among different ALP 300-G systems and the Air Force command centers thru radios, radio links and army backbone thru AWCIES messaging. ALP 300-G can perform data fusion and track handover amongst themselves, which is a critical feature especially for ballistic missile defense. A long range Mode 5 IFF interrogator is integrated with a high gain IFF antenna to cooperate with radar's operational modes. ALP 300-G AESA arhitecture and modular design approach support the concepts of high availability and low cost maintenance. ALP 300-G, has several ECCM features such as frequency / time agility, low side lobe levels, jammer strobe and nulling, side lobe blanking, to name a few.

Operational & Tactical Specifications

- Effectiveness against a broad set of threats at long range
- Detection and Tracking of Targets with Very Small RCS at Long Range
- Detection and Tracking of Ballistic Missiles
- Electronic Scanning in Azimuth and Elevation
- State of the Art Solid-State Power Amplifier Technology
- Digital Beamforming
- Target Classification Capability
- Various Tactical Operation Modes
- Long Range Mod5/S IFF System (Compatible with NATO STANAG-4193)
- Local and Remote Radar Control
- Performance Evaluation Subsystem
- Integration with the National C2 Systems and NATO Air Command and Control System (ACCS)
- Integration with the Air and Missile Defense Systems
- Compliance with the Tactical Communication Networks
- Advanced Electronic Protection Measures and Cyber Security
- Counter Measures against Anti-Radiation Missiles
- Portability with 10 Ton Class Tactical Wheeled Vehicles (TWV)
- Transportable with C130/A400M
- 24/7 Operation
- 3000 Hours MTBCF
- %99.9 Availability
- 30 Minutes Deployment and March-Order Time
- Advanced Built-in Test (BIT) Capabilities
- 30 Minutes MTTR
- Endurance to Harsh Environmental Conditions (MIL-STD-810G)
- Advanced Algorithms for Windfarm Mitigation





