

ALP | 310-G

LONG RANGE SURVEILLANCE RADAR

#Radar



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ALP 310-G, is a new generation S-Band radar developed to carry out long range search missions for the Siper Air Defence System, with its AESA and digital beamforming antenna architecture. ALP 310-G takes responsibility to detect air breathing targets in long ranges and low/medium/high altitude, stealth/low RCS targets from long ranges. AESA and Digital Beam Foming architecture together with Multi Channel Receivers allows to produce simultaneous beams in space paving the way for multi-function and multi-mission operations. ALP 310-G uses weather information to optimize its detection and tracking performance. ALP 310-G is a highly mobile standalone system with its radar and power systems on tactical trucks. Therefore, it can be deployed in the designated area without the necessity of any assembly-disassembly procedures.

ALP 310-G has the capability to generate air maps and transfer tracks as part of the Siper Air Defence System. A long range Mode 5 IFF interrogator is integrated with a high gain IFF antenna to cooperate with radar's operational modes. ALP 310-G, the existing AESA structure and its redundant structure provide a low-cost maintenance option and enable continuous operation for extended periods without interruption. ALP 310-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 and Tactical Specifications

- Effectiveness against a broad set of threats at long range
- Detection and Tracking of Targets with very small RCS at Long Range
- 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
- Integration with the Fleet Control Center
- 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 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)



Specifications are subject to change without any notice. | All tolerances are within $\pm 10\%$.

REHIS - ALP 310-G - 03.2025