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ERALP

EARLY WARNING RADAR SYSTEMS

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EIRS, is a new generation S-Band radar developed for long range early warning, with its AESA and digital beamforming antenna architecture. EIRS has the ability to detect and track air breathing targets, 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. EIRS EIRS can be connected to radar networks and can exchange 3D air picture among different EIRS systems and the Air Force command centers thru radios, radio links and army backbone thru AWCIES messaging.

EIRS can perform data fusion and track handover amongst themselves. A long range Mode 5 IFF interrogator is integrated with a high gain IFF antenna to cooperate with radar's operational modes. EIRS, has several ECCM features such as frequency / time agility, low side lobe levels, jammer strobe and nulling, side lobe blanking, to name a few.

General Features

- Effectiveness against a broad set of threats at long range
- Detection and Tracking of Targets with Very Small RCS at Long Range
- 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 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
- Portability with 10 Ton Class Tactical Wheeled Vehicles (TWV)
- Transportable with C130/A400M
- 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

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