AN/ALR-56M
Advanced radar warning receiver
Long range warning for mission success

AN/ALR-56M
Advanced radar warning receiver system
• U.S. Air Force standard advanced RWR
• Unambiguous threat detection/identification
• Advanced architecture for high-density environment
• C-J band coverage — growth to MMW and other bands
• Designed for easy RF compatibility/interoperability with a wide range of aircraft and EW avionics
• User/flightline reprogrammable
• Demonstrated high operational MTBF and low MTTR
• Two-level maintenance assures low life-cycle cost
• Over 1000 systems; baseline equipment on F-16, B-1B, C-130J and UK RMPA aircraft

Benefits
• Expanded situational awareness enabling long-range response strategy — threat avoidance
• Easy interoperability with a wide range of aircraft and avionics
• Demonstrated high operational MTBF and low MTTR
• Two-level maintenance assures low life-cycle costs
• User reprogrammability
• Operational on F-16 and C-130 — combat-proven
• Provides effective threat warning and primary sensor/control for expanded defensive aids systems
• Retrofits easily into numerous aircraft utilizing installed antennas and displays
System features

- Modern RISC-computer controlled, wideband, agile, superheterodyne receiver architecture
- Automatically adapts selectivity and sensitivity to the threat environment
- Reliable detection and digital preprocessing eliminates non-threat RF signals
- Adaptive high-speed digital signal processing
- Adaptive real-time filtering provides protection against high-rate emitters and CW signals
- Continuous built-in test and calibration with in-cockpit reporting
- Capability growth (e.g., dual pole, mmW, precision location, identification)
- Detects and identifies all modern search, acquisition and tracking radars of ground-based and aircraft weapons systems

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