

Multi-Mission Radar (MMR) Family ■ ELM-2084



■ DEFENSE & SELF-PROTECTION

General

The ELM-2084 is a mobile S-Band Multi-Mission Radar (MMR) Family implementing an advanced 3D Active Electronically Steered Array (AESA) supporting modular and scalable architecture.

The MMR family supports Artillery Weapon Location & Air Defense operational missions and provides optimal solutions for short, medium and long range missions.

The ELM-2084 features high redundancy, graceful degradation, high reliability and very high availability.

Missions

- Artillery Weapon Location:
 - Detection of Mortars, Cannons, Rockets and Missiles
 - Hostile Weapon Location
 - Calculation of Impact Points
 - Friendly Fire Ranging
- Air Defense:
 - Detection and Classification of all types of airborne targets
 - Fast update rate for tracking of maneuvering targets
 - Generation of Real-Time Air Situation Picture
- Fire Control:
 - Anti-Missile Interception Systems
 - SAM systems



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Features

- 3D Multi-beam Operation by Active Electronically Steered Array
- Dual Operational Modes:
 - WLR: Sector of up to 120°
 - Air Defense: Rotating up to 30RPM for fast update rate
- Scalable to several sizes / configurations
- High Mobility and Fast Deployment
- Air Transportable (by C-130)
- Remote Operation
- Integrated Network Operations
- Advanced ECCM Capabilities
- Advanced Signal Processing for:
 - Operation in Heavy Clutter and Noisy Environments
 - Operation in Dense Environments
 - Classification and Identification of Targets
 - Superior Low Altitude Operations
- Graceful Degradation and Very High Availability



Modular and Scalable Configurations

Performance Highlights*

	Air Surveillance	Weapon Location
Detection Range	Up to 256NM	Up to 100Km
Azimuth Coverage	120° or rotating 360°	120°
Elevation Coverage	Up to 50° & 100Kft	Up to 50°
Accuracy	Provide high accuracy 3D measurement	0.25% CEP
Capacity	Up to 1200 targets	200 targets / min

* Actual figures depend on radar size / configuration

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