



# AN/APR-48B

MODERNIZED RADAR FREQUENCY INTERFEROMETER

**LOCKHEED MARTIN**   
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sensitivity and precision angle of attack in a lightweight, modular configuration suitable for airborne or ground-based platforms, both manned and unmanned. These features allow the system to work efficiently with radar and electro-optic (EO) sensors to extend useful range, decrease acquisition time and provide positive target identification. The system can also operate independent of other sensors to provide enhanced situational awareness. As the number of platform transmitters increase in quantity and duty cycle, the system adapts and is fully interoperable for successful operation.

## RWR AND SURVIVABILITY

Increased sensitivity, high probability of intercept and positive signal identification make the system an ideal solution for RWR applications. Advanced warning of a radar-guided threat allows the aircrew

### System Specifications

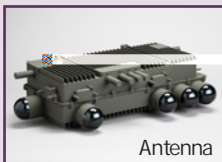
Weight .....39 lbs

- Antenna.....15.1 lbs
- Receiver.....9.1 lbs
- Processor .....13.6 lbs
- Cables.....21 lbs

#### Dimensions

- Antenna.....21" x 4.9" x 10.4"
- Receiver.....11.1" x 8.6" x 7.8"
- Processor.....6.9" x 7.4" x 12"

Power Dissipated ..... 250 watts



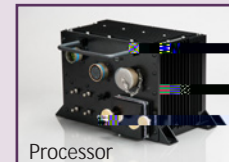
Antenna

- Two four-element interferometer arrays used for precision Direct on Finding (DF) with 120-deg. field of view
- Additional antenna group with expanded frequency range for modern threat detection are incorporated
- Unique rotor blade processing algorithms perform precision DF
- Has instantaneous 360-deg. field of view, coarse DF arrays for initial signal acquisition and RWR alerts



Receiver

- Uses Digital Receiver with wideband detect on and narrowband sensitivity
- Provides signal detection, measurement, processing, sorting, and Direct on Finding
- Fully channelized receiver allows for accurate signal detection even among strong interference
- Firmware-based Digital Signal Processing (DSP) can



Processor

*The AN/APR-48B Modernized Radar Frequency Interferometer (MRFI) system passively detects, accurately identifies and precisely locates radar emitters*

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