



AN/APR-39E(V)2

Digital Radar Warning Receiver

A smarter, more agile radar warning receiver

The electronic battlefield becomes more complex every day, dominated by an array of multispectral radio frequency/infrared/electro-optical (RF/IR/EO) threats that jeopardize aircrew survival. To survive, aircrews must have not only sophisticated digital radar sensors and countermeasures, but also a way to manage them.

The AN/APR-39E(V)2 is the next step in the evolution of the AN/APR-39, the radar warning receiver and electronic warfare controller that has been protecting aircraft for decades. This fully digital system provides 360-degree coverage to automatically detect and identify threat types, bearing, and lethality.

Based on Northrop Grumman's ultra-wideband architecture and digital millimeter wave antennas shared with other electronic warfare programs of record, the AN/APR-39E(V)2 detects modern, agile threats and waveforms, including low power millimeter wave systems. This common building block approach enables affordable sustainment, so operators can always keep up with the state of the art threat.

AN/APR-39E(V)2 Benefits

- Digital receiver greatly improves sensitivity and tuning speed. The multi-channel digital receiver also provides high fidelity RF signal measurement for tighter mission data programming to characterize emitters and reduce ambiguities
- Handles new and complex emitters, including millimeter wave frequency, single pulse modes, and frequency- and phase-modulation
- Promptly displays signal Angle of Arrival (AOA) for signals of any polarization
- Supports a low-band array for C/D band AOA
- Includes an integrated processor
- Supports multiple interfaces available to meet the user's current and future requirements
- Expanded processing and discrimination capability to perform detection, direction determination, classification and response
- Flight line reprogrammable Operational Flight Program and threat library
- Reduced crew workload through easy-to-understand threat symbology and digital voice audio
- Outpaces emerging RF threats through improved Instantaneous Bandwidth (IBW)



AN/APR-39E(V)2 Interfaces

The AN/APR-39E(V)2 RWR supports a large number of communication and electrical interfaces, as well as numerous system interfaces for aircraft survivability equipment (ASE).

Types of Radar Emitters Detected

1. Pulsed
2. Pulse Doppler
3. Continuous Wave
4. Single Pulse
5. Frequency Modulated
6. Phase Modulated
7. Scanning Emitters
8. Agile PRIs and RF
9. Low Probability of Intercept

AN/APR-39E(V)2 RWR System Specifications

Frequency Range:	C to M
Weight:	52.4 lb / 23.77 kg
Volume:	1330 in3 / 21,795 cm3
Typical Power Dissipation:	330 W, 28 VDC
Audio:	Digital voice
Display:	Bright light/Night Vision Goggle (NVG) compatible, alphanumeric symbology (for non-Multifunction Display (MFD) equipped aircraft)

AN/APR-39E(V)2 Integrated Platform Applications

The AN/APR-39E(V)2 RWR is designed to support numerous rotary and fixed-wing aircraft.

For more information, please contact:

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