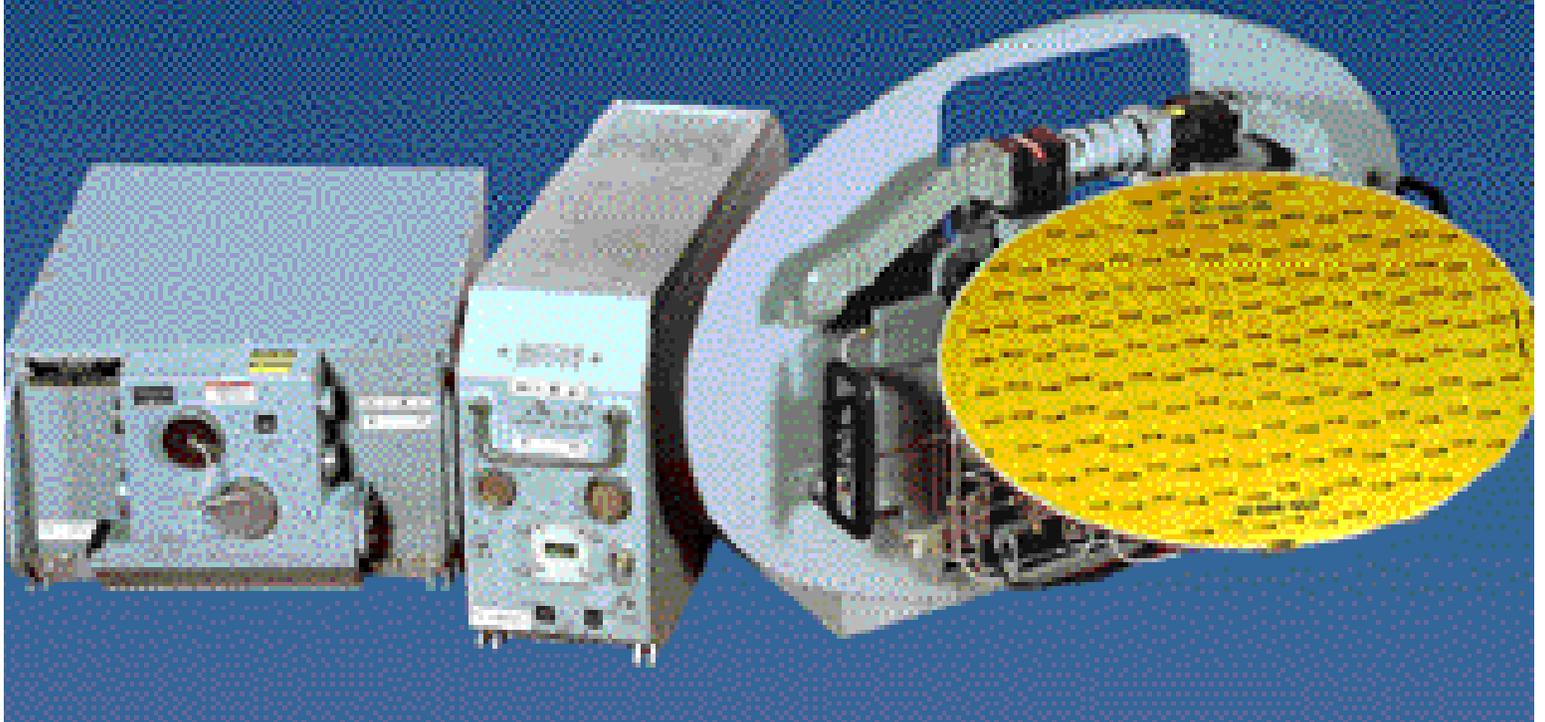




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APG-67 Multimode Radar

The capabilities necessary for modern air combat



Designed to Fit the Aircraft, Designed to Fit the Mission... ...Anywhere in the World

For both new and existing fighter aircraft, the AN/APG-67 multimode radar provides the situational awareness and fire control capabilities necessary for modern air combat engagements. The system provides both air and surface modes for true multi-role operation. The long-range detection and tracking capabilities allow maneuvering to gain tactical advantage.

The radar is fully integrated and tested with Beyond Visual Range (BVR) missiles (semi-active and data link), allowing the pilot to take advantage of the APG-67's long range detection and tracking capability. The highly capable tracking modes assure lock-on and reliable track during "high g" maneuvers.

The AN/APG-67 radar is fully operational 90 seconds after turn-on. Its coherent pulse-Doppler processing is particularly adept at detecting targets in the "look-down" engagement which gives the pilot look-down/shoot-down capability for targets "hiding" in high ground clutter and sea clutter. Additionally, pilot distraction due to false alarms is minimized.

The fourth-generation design takes advantage of 21st century signal processing with a compact transmitter, processor and antenna using less than 1.9 cu. ft./0.054 cu.m.

Advanced Features, Highly Capable, Adaptable

Easy to Install

- Three line replacable units
- Volume – less than 1.9 cu. ft./ 0.054 cu. m.)
- Weight – less than 160 lb. (73 kg.).
- Antenna easily scaled to the aircraft

Prime Power and Cooling

- Prime Power – Less than 2100 watts
- Cooling – 1800 watts

Transmitter

- 396 watt average power
- Air cooled

Performance

- Fighter sized targets at >40 nmi/75 km
- 90 seconds from

power on to full operation

- Track while scan
- Ten targets
- Weapons delivery quality data

Features

- Monopulse tracking
- Guard channel with full two channel processing
- Pulse compression
- Full area CFAR

High Reliability

- Greater than 350 hour MTBF from field data
- Predicted MTBF of 600 hrs

Easily Maintainable

- BIT fault isolates to the shop replaceable Unit
- Plug in modules

Supportable

- Training
- Maintenance documentation
- Spares documentation
- Support beyond 2025

Optional Capabilities

- High-resolution synthetic aperture imaging
- Various ECCM capabilities



Synthetic Aperture Imaging

Full Suite of Modes

Air to Air

- RWS Look-Up (LU)/Look-Down (LD)
- ASM LU/LD
- ACM - HUD Search, Vertical Acquisition, Boresight and Slewable
- Velocity Search
- Track While Scan
- Single Target Track
- Situation Awareness Mode

Air to Surface

- Real Beam Ground Map and Expand
- Doppler Beam Sharpened Map
- Freeze
- GMTI and Track
- Air to Ground Ranging
- Fixed Target Track
- Beacon

APG-67(V4) Programs

The fourth generation of the proven AN/APG-67 radar system has finished development and is in integration for a second new aircraft development program.

Planning is underway to retrofit earlier versions of the APG-67 radar.

The APG-67 Radar has been selected for use on the AT-63 Pampa Trainer/Light Attack Aircraft.

Additionally, the APG-67 radar has been flight tested and selected for use in an F-5 upgrade program.

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