



RACR: Raytheon Advanced Combat Radar

Revolutionary technology. Evolutionary capabilities.

Benefits

- Scalable for operation on multiple platforms
- Demonstrated state-of-the-art fighter radar performance
- Designed for “plug and play” installation
- Increased force interoperability
- Low risk, low cost, net-centric technology enabler
- Cost efficiencies from active production lines
- Field proven reliability and maintainability
- Reduced life cycle costs
- Access to spiral technology upgrades in the future

Revolutionary AESA Technology

Drawing on its proven, leading-edge radar technology, Raytheon has added RACR to its family of advanced electronically scanned array (AESA) radars. Compact, lightweight and scalable, RACR is suitable for F-16, F/A-18 and other fighter aircraft. It gives pilots critical tactical advantages in today’s net-centric battlespace.

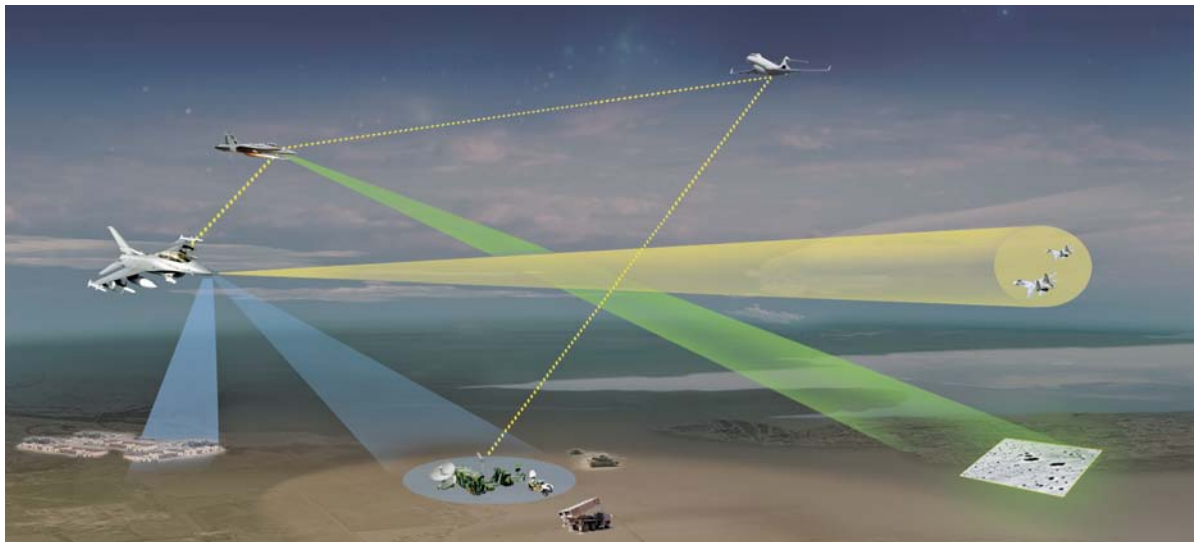
RACR exploits Raytheon’s experience in fielding advanced air-to-air, air-to-surface multimode AESA radars selected for the F/A-18E/F, EA-18G and F-15C platforms. It provides superior operational performance—detection, targeting, tracking, and self-protection—and can be tailored to any fighter platform’s size, space, weight and radome requirements.

Drop-in Convenience

Raytheon’s flexible, modular approach combines proven systems and innovative enhancements to speed delivery of the right solution for a variety of fighter aircraft. We designed the form-fitted RACR as a drop-in upgrade for the F-16 and F/A-18 to minimize aircraft modification time and aircrew transition training. This advanced, nonintrusive radar leverages our active production lines, ensuring the fastest delivery and the lowest possible cost.

Raytheon

Drop-in design for fighter aircraft



The multimode interleaving and net-centric capabilities of Raytheon's AESA radar offer substantially increased situational awareness.

Matchless Force Superiority

Designed to integrate technology advances and adapt to future needs, RACR is easily scalable, ensuring up-to-date force capability. Spiral technology insertion makes this cutting edge radar available to mid-life fighter fleets, extending their use well into the future.

Low Risk Enhancements

Raytheon's RACR AESA solution extends to an expanded F-16 and F/A-18 worldwide fleet the advantages offered by our F-15C, F/A-18E/F and EA-18G radars. Our AESA radar family's continuing evolution ensures obsolescence protection, making state-of-the-art radar performance enhancements available at low risk for decades to come. Raytheon also offers proven ability to scale or customize radar systems for multiple combat aircraft platforms, domestic and international.

Superior Reliability

Raytheon's AESA radars have an unparalleled record of performance. Designed for continual service in rugged fighter conditions, they rarely need maintenance or repair over the life of the aircraft platform.

Since we built the first operational AESA fighter radar, the APG-63(V)2 for the F-15C, we've continued to develop and refine the technology. Like our combat-proven AESA radars, RACR offers a clean, sophisticated design that delivers exceptional in-commission rates, resulting in lower life-cycle costs.

Optimal Multirole Capability

RACR increases interoperability with coalition forces, enhancing the aircraft's multirole mission capabilities of extended detection range, improved multitarget track, enhanced precision engagement, and simultaneous air-to-air and air-to-surface operations. Performance gains and secure, interoperable AESA technology provide advanced electronic warfare, communications, and data sharing capability for optimal warfighter support in the net-centric battlespace.

The Core of Future Fighter Aircraft

Combining RACR with Raytheon's electronic warfare capabilities and airborne processors forms an integrated sensor suite that gives pilots unsurpassed

tactical advantages. No one offers Raytheon's level of proven, operational AESA capability and mission support. Whatever the task—defense, ISR, or strike—pilots and aircrews can rely on RACR for optimal mission assurance.

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Raytheon

Customer Success Is Our Mission