



## Trusted by Friends, Feared by Foes

Why is the F-16 the world's most sought-after fighter? Two answers: The aircraft is trusted by its friends and feared by its foes. That's why the F-16 soars above all others as the international favorite. Nations around the world have evaluated the variety of choices available and consistently selected the F-16, the world's most capable, best-value multirole fighter available. More than 4,400 F-16s have been produced for 25 countries with 52 follow-on buys by 14 customers – a key indicator of customer satisfaction. These customers have experienced the performance and reliability of the F-16 firsthand; they reaffirm the high quality of the aircraft. Nations that operate the F-16 have made an important commitment to their citizens' national defense. To that end, no other fighter can match the F-16's record . . . because no other fighter comes close to offering all its strengths. Proven. Effective. Affordable. Reliable. Ready.



**LOCKHEED MARTIN**   
*We never forget who we're working for®*

## F-16 Fighting Falcon The Most Successful Multirole Fighter in History



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## The World Standard for Multirole Fighters

The F-16 offers exceptional versatility and more capability than any multirole fighter available today. It is a true force multiplier and typically performs multiple tactical roles on most missions. Payload flexibility and operational versatility are unmatched across the spectrum of air-to-air and air-to-surface missions – and it is ready to perform long-range strike or long-endurance loiter.

The F-16 has evolved into the most capable fourth-generation multirole fighter available, building upon its legendary combat record of over 400,000 combat sorties. It has proven itself during the last 18 years of continuous combat with the U.S. Air Force. Significant improvements in combat capability have been incorporated from “lessons learned” in this real-world experience. These improvements include:

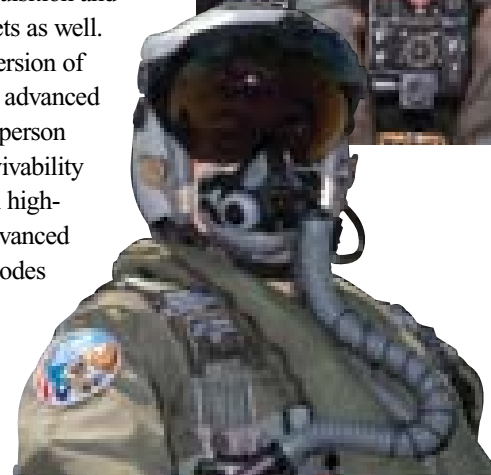
- Autonomous, all-weather, day/night precision targeting
- Range/endurance
- All-weather precision weapons
- Network-centric operations
- Internal, advanced electronic warfare suite

The F-16 is the most proven, capable and affordable multirole fighter available in the world today.



## Modern Avionics, Sensors and Systems Capabilities

**Advanced Cockpit.** Color multifunction displays provide the primary interface with sensors and weapons and give the pilot exceptional awareness of the battlespace through tactical situation formats. Cockpit and external lighting are fully compatible with night vision goggles. The helmet-mounted cueing system, combined with high off-boresight missiles, provides increased lethality against air threats, and the same helmet allows for quick acquisition and engagement of ground targets as well. The missionized two-seat version of the F-16 fully integrates the advanced weapons system into a two-person crew concept, boosting survivability and situational awareness in high-workload environments. Advanced autopilot and autothrottle modes decrease pilot workload. Automatic aircraft recovery features and state-of-the-art ground collision avoidance systems increase safety.



### Latest Avionics.

Integration of advanced avionics with new, sophisticated computers offers faster speed and greater memory to support advanced systems and weapons. The new computers are far more reliable and, by using the modular approach to systems design, have significantly reduced maintenance costs. The modularity of new processors and software allows for continuous growth and modification. When coupled with the vast network of worldwide users, the F-16 offers affordable updates throughout the life of the program. Only the F-16 offers this proven roadmap of continuous capability enhancements.

**Multimode Radar.** The F-16 is available with both advanced multimode mechanically scanned and Active Electronically Scanned Aperture (AESA) radars. These radars facilitate all-weather targeting, while also providing high-resolution ground target detection and imaging. Multiple modes support all facets of the tactical environment. Today's mechanically scanned radar incorporates modern electronic technology that greatly improves reliability and maintainability. The AESA-equipped F-16 offers the added benefit of electronic beam scanning that enables air-to-air and air-to-ground radar modes to interact in near real time, so the pilot can use both simultaneously.



**Advanced Data Link.** This network-centric capability connects pilots with other external sensors and information sources, providing unparalleled awareness of the tactical picture – the right information at the right time. Incoming data can be filtered via pilot interface so that the information is not overwhelming.

**Survivability Features.** The small visual IR and RF signatures of the F-16 allow the aircraft reduced detection by the enemy. Modern threat warning systems, expendables and internal electronic warfare systems help avoid the most advanced threats. Superior agility, excellent pilot situational awareness, buried fuel lines and fuel inerting systems combine to reduce the F-16's vulnerability to attack. Critical systems redundancy and shielding enhance survivability.

**Improved-Thrust Engines.** The F-16 offers a choice of the world's best fighter engines – the Pratt & Whitney F100 or the General Electric F110 engine in the 29,000-pound thrust class. Both engines are proven around the world and have demonstrated a record of safety, reliability, efficiency, maintainability and durability.



**Range and Payload.** Conformal fuel tanks significantly extend F-16 range and persistence. They can be installed easily and are aerodynamically shaped for maximum range performance without compromising the F-16's legendary handling qualities. The latest F-16 can deliver over 6,000 pounds of ordnance on targets more than 900 nautical miles away and return home without refueling.

**Affordability: Protecting Budgets and Borders.** It might be said that no price tag can be put on the importance of national defense. Yet the reality is this: budgets and borders are both important – another reason the F-16 is the worldwide favorite. Today's most capable, best-value multirole fighter is also the most affordable in terms of procurement and operational life-cycle costs. For future upgrades to capability and supportability, there is potential cost sharing among the family of two dozen users and economies of scale with thousands of F-16s in service today.

**Complete Solution for Sustainment.** The F-16 features an outstanding global logistics network. With aircraft based at more than 80 locations worldwide – from the hottest climates to the coldest – Lockheed Martin offers complete sustainment solutions for any customer force size, operational concept and support arrangement. Additionally, world-class training ensures F-16 pilots and maintenance technicians reflect the skills and insights of seasoned experts. As the backbone of many coalition operations, the F-16 provides full interoperability. With an unprecedented upgrade roadmap that assures continuous technology insertion, the F-16 offers customers affordable technology upgrades to ensure that aircraft purchased today will remain viable well into the future.



**Weapons and Sensors.** F-16 stores integration continues to grow – more than 100 stores in 5,000 combinations. The latest precision air-to-surface weapons have been integrated into the F-16, along with multispectral targeting pods that provide both air-to-air and air-to-ground features. Special mission capability, such as anti-radiation lethal defense suppression, anti-shipping and photoreconnaissance, has been added to the fighter's stores mix. With combined load-outs of air-to-air and air-to-ground weapons, the F-16 has demonstrated the ability to provide self-escort, defending itself against enemy fighters.



*By every measure, the F-16 defines the world standard for multirole fighters.*

## F-16 Fighting Falcon

Weights	
Empty	20,300 lb / 9,207 kg
Max Takeoff Gross Weight	48,000 lb / 21,772 kg
Engine Thrust	
	29,000 lb / 13,000 kg class
Service Life	
	8,000 hr
Height	
	16.7 ft / 5.090 m
Length	
	49.3 ft / 15.027 m
Design Load Factor	
	9 g
Wingspan	
	31.0 ft / 9.449 m
Wing Area	
	300 ft <sup>2</sup> / 27.87 m <sup>2</sup>
Speed	
	1,500 mph (Mach 2+)

