51///TTI" 51/4/5



AIR DEFENSE FIGHTER

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Performance & **Specifications**

FLYAWAY COST: \$25 Million Typical Flyaway

AVAILABILITY: TBD

TYPE

Single Seat Air Defense Fighter (ADF) and Strike Fighter (SF)

ACCOMMODATION

Single Pilot Seated on a MK16E, MK18 or ACES 5 Zero-Zero Ejection Seat

POWERPLANT

One (1) General Electric Aircraft Engines F414 Enhanced Afterburning Turbofan delivering 26,600 lbs st with Afterburner and 16,232 lbs st at Military Power. The powerplant may be fitted with a thrust vectoring nozzle.

STRUCTURE

Semi-monocoque aluminum and titanium foam metal sandwich construction throughout with multiple sine-wave spars in the cantilever wings and empennage. Titanium metal ceramics (cermets) used in high temperature regions.

ARMAMENT

Fixed: One Nose mounted General Dynamics six barrel M61A2 20mm gatling cannon with 1,000 rds Expendable: Eight external wing hardpoints for carriage of up to 12,000 lbs of external stores

DIMENSIONS

WEIGHTS & CAPACITIES LOADINGS	
Height Overall 42 it 6 iii Wheelbase Height Overall 12 ft 4 in Wheeltrack	12 ft 0 in
Wingspan 33 ft 4 in Wing Area Length Overall 42 ft 0 in Wheelbase	308 sq ft 16 ft 6 in

WEIGHTS & CAPACITIES

Empty Weight	16,000 lbs	Wing Loading @ TCW (lbs/sq ft)	76.9
Max Internal Fuel (IF)	7,000 lbs	Thrust-to-Weight @ TCW	1.12
Max Warload	12,000 lbs	Wing Loading @ MTOW (lbs/sq ft)	116.9
Typical Combat Weight (TCW)	23,700 lbs	Thrust-to-Weight @ MTOW	0.74
Max Take-Off Weight (MTOW)	36,000 lbs	Positive Load Limit @ MTOW	9.0

PERFORMANCE

Max Level Speed @ SL Max Level Speed @ 15,000 ft Max Level Speed @ 35,000 ft Max Supercruise @ 15,000 ft Max Supercruise @ 35,000 ft Typical Cruise @ 25,000 ft Typical Cruise @ 35,000 ft Typical Approach Speed @ SL Typical Landing Stall Speed @ SL	2.27 Mach 1.00 Mach 1.00 Mach 0.85 Mach 0.85 Mach 133 KTAS	0.85 Mach Ferry Range-External Tanks Takeoff Ground Roll, Takeoff Weight	230 nm 103 nm 945 nm 462 nm 1,420 nm 694 nm 2,051 nm 1,575 ft
Typical Approach Speed @ SL Typical Landing Stall Speed @ SL Max Initial Rate-of Climb @ SL		Landing Ground Roll, Landing Weight	1,575 ft 1,989 ft 55,000 ft





