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Performance & Specifications

FLYAWAY COST: \$26 Million Typical Flyaway

AVAILABILITY: TBD

55,000 ft

TYPE

Two Seat Air Defense Fighter (ADF), Strike Fighter (SF) and Advanced Supersonic Trainer (AST)

ACCOMMODATION

Flight Crew of Two Seated on Martin Baker MK16E Zero-Zero Ejection Seats

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

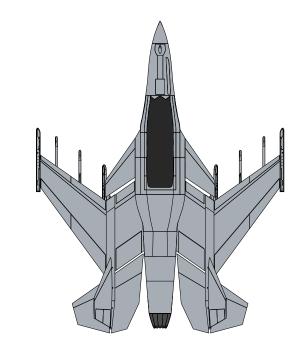
Fixed: One Nose mounted General Dynamics six barrel M61A2 20mm gatling cannon with 1,000 rds Expendable: Eight external wing hardpoints for carriage of up to 12,000 lbs of external stores

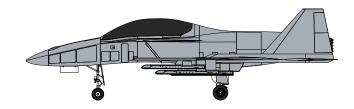
DIMENSIONS

Wingspan Length Overall Height Overall	33 ft 4 in 42 ft 0 in 12 ft 4 in	Wing Area Wheelbase Wheeltrack	308 sq ft 16 ft 6 in 12 ft 0 in
WEIGHTS & CAPACITIES		LOADINGS	
Empty Weight Max Internal Fuel Max Warload Typical Combat Weight (TCW) Max Take-Off Weight (MTOW)	16,770 lbs 6,000 lbs 12,000 lbs 24,200 lbs 36,000 lbs	Wing Loading @ TCW (lbs/sq ft) Thrust-to-Weight @ TCW Wing Loading @ MTOW (lbs/sq ft) Thrust-to-Weight @ MTOW Positive Load Limit @ MTOW	78.6 1.10 116.9 0.74 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	1.23 Mach 1.60 Mach 2.27 Mach 1.00 Mach 1.00 Mach 0.85 Mach 0.85 Mach 136 KTAS 113 KTAS	Max Speed Range-Clean, Internal Fuel Max Speed Radius-Clean, Internal Fuel Supercruise Range-Clean, Internal Fuel Supercruise Radius-Clean, Internal Fuel 0.85 Mach Range-Loaded, Internal Fuel 0.85 Mach Radius-Loaded, Internal Fuel 0.85 Mach Ferry Range-2 x 330 USG Tanks Takeoff Ground Roll, Takeoff Weight Landing Ground Roll, Landing Weight	185 nm 83 nm 756 nm 367 nm 1,132 nm 550 nm 1,821 nm 1,575 ft 2,072 ft

47,700 ft/min Service Ceiling Exceeds







Max Initial Rate-of Climb @ SL