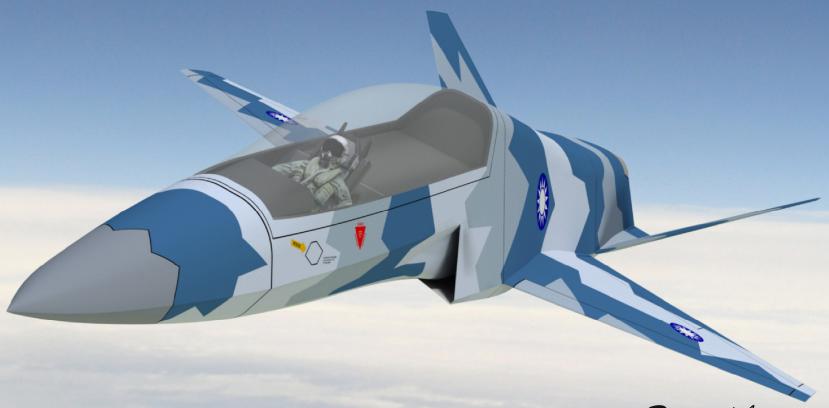
STAVATTI" SM-815 STILETTO



Powered by

F125XX

ADVANCED LIGHT FIGHTER



Performance & Specifications

FLYAWAY COST: \$23 Million AVAILABILITY: TBD

TYPE

Light Fighter (LF), Air Defense Fighter (ADF) and Armed Reconnaissance (AR) Aircraft

ACCOMMODATION

Flight Crew of One Seated on a Martin Baker MK16E or MK 18 Zero-Zero Ejection Seat

POWERPLANT

One (1) Honeywell F125XX Afterburning Turbofan delivering 7,263 kgf st with Afterburner and 5,220 kgf st at Military Power. The powerplant is fitted with variable geometry, thrust vectoring and reversing 2D nozzle.

STRUCTURE

Semi-monocoque aluminum lithium and aluminum honeycomb sandwich construction throughout. Titanium used in high fatigue areas and high temperature regions. Extensive use of Laser and Friction Stir Welding in all assemblies.

ARMAMENT

Fixed: One fuselage mounted M61A2 20mm gatling cannon with 500 rds Expendable: Internal Weapons Bay and six external wing hardpoints for up to 3,223 kg of external stores

DIMENSIONS

Wingspan Length Overall

Height Overall	2.74 m	Wheeltrack	3.25 m
WEIGHTS & CAPACITIES		LOADINGS	
Empty Weight Max Internal Fuel	3,858 kg 1.725 ka	Wing Loading @ MMW (kg/sq m) Thrust-to-Weight @ MMW	305 1.45
Max Payload	, ,	Wing Loading @ MTOW (kg/sq m)	555
Mid-Mission Weight (MMW)	4,993 kg	Thrust-to-Weight @ MTOW	0.80
Max Take-Off Weight (MTOW)	9,078 kg	Positive Load Limit @ MTOW	9.0

7.32 m Wing Area

12.70 m Wheelbase

PERFORMANCE

Approach Speed; Landing Weight @ SL 230 km/hr Takeoff, BFL @ SL-TTW 500 m Stall Speed; Landing Weight @ SL 191 km/hr Landing, Ground Roll @ SL-TLW 458 m	Stall Speed; Landing Weight @ SL	0.90 Mach 0.90 Mach 0.80 Mach 0.80 Mach 328 km/hr 274 km/hr 230 km/hr 191 km/hr	Max Climb Rate @ SL; MMW Dash Range @ 2.19 Mach Dash Radius @ 2.19 Mach Cruise Range @ 0.90 Mach Cruise Radius @ 0.90 Mach Ferry Range with External Tanks Takeoff, Ground Roll @ SL-TTW Landing, Ground Roll @ SL-TLW	164 m/sec 303 m/sec 257 km 111 km 2,374 km 674 km 3,719 km 287 m 500 m 458 m
Service Ceiling Exceeds 18,288 m Landing, BFL @ SL-TLW 683 m	Service Ceiling Exceeds	18,288 m	Landing, BFL @ SL-TLW	683 m





16.35 sq m

4.78 m

