

SPECIFICATION SHEET

JETQUAD

Model AB7

Quad Turbine VTOL UAS

September, 2026



FEATURES

Application:	Emergency Services & Time-Critical Missions
Operating Advantage:	Freezing Weather, High-Altitude & Dense Terrain
Throttle Management:	Real-Time Thrust Compensation for Fuel Burn-Off
Fuel Flexibility:	Kerosene, Diesel, Jet-A, or Biodiesel
Turnaround Time:	Refuels in Under 1 Minute
Flight Mode:	Guided Waypoint Navigation with Full Engine Auto-Start
VTOL Transition:	Zero-Pitch Hover-to-Forward-Flight Conversion
Software:	Custom PX4 Stack with QGroundControl Mission Planner
Navigation:	Dual GPS (non-RTK) Satellite Positioning
Delivery:	Ready-to-Fly Out of the Box

PERFORMANCE

Total Thrust Output (Max):	190 lb (840 N)
Cruise Speed (Sea-Level):	150 mph (67 m/s)
Climb Rate (Sea-Level):	67 mph (30 m/s)
Operational Radius (Max):	25 mi (40 km, Datalink Limited)
Endurance:	12-20 min (Payload Weight Dependent)
Engine-Start Altitude (Max):	6,500 ft (2 km)
Service Ceiling:	33,000 ft (10 km, ISA Standard Day)
Operating Wind Speed (Max):	40 mph (18 m/s)
Operating Temperature Range:	14 °F to 120 °F (-10 °C to 50 °C)
Noise Level (Max):	100 dBA @ 1 m

PHYSICAL PROPERTIES

(Fuel and Payload values are adjusted to fit mission profile)

MTOW (Max Take-Off Weight):	120 lb (54 kg)
Empty Weight:	46 lb (21 kg)
Payload Weight (Nominal):	40 lb (18 kg)
Fuel Weight (Max):	34 lb (15 kg)
Fuel Tank Capacity:	5 gal (19 L)
Dimensions (L x W x H):	45" x 39" x 12" (1.2 m x 1 m x 0.3 m)



Contact us: info@fusionflight.com
Copyright 2026 FusionFlight. All Rights Reserved.



PROPULSION

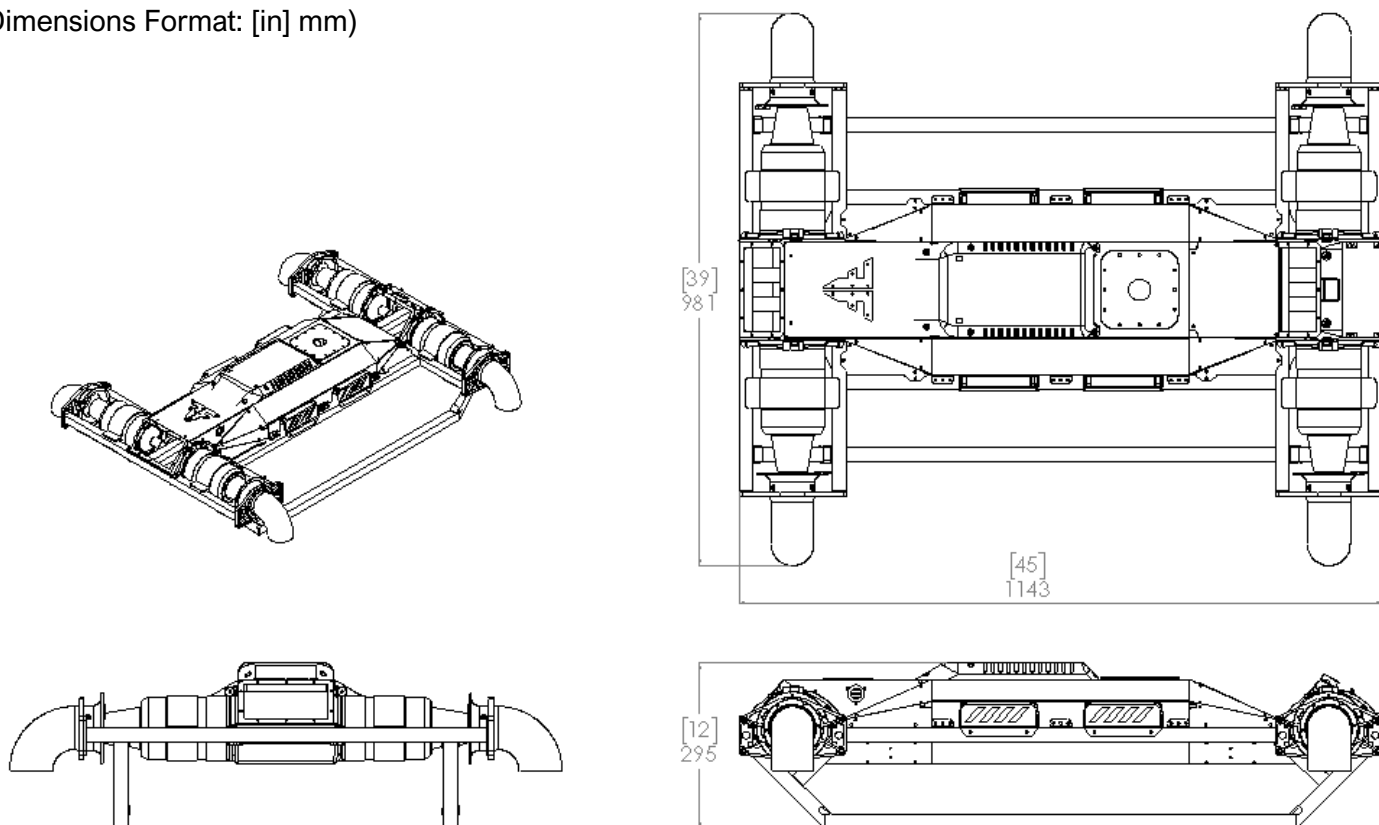
Powerplant:	4 × Microturbine Jet-Engines
Vehicle Dynamic Control:	4 × Electric Thrust Vectoring Systems (TVS)
Start-Up Time:	10 seconds
Easy-Swap Battery:	4 × 2,200 mAh LiPo
Turbine Rotational Rate (Max):	121,000 RPM
Fuel Flowrate (Max, 4 engines):	0.8 gal/min (3 L/min)
Air Flowrate (Max, 4 engines):	3,000 CFM (84,000 L/min)
TVS Exit Temperature (Max):	1,200 °F (650 °C)
Service Interval:	50 hours (Includes Turbine Cleaning & Rebalancing)
Time Between Overhaul (TBO):	1,000 hours

REMOTE CONTROLLER

Control Uplink (900 MHz):	Long Range Digital Uplink
Propulsion Telemetry (433 MHz):	Engine & Fuel Status — 2.5" OLED
Vehicle Telemetry (915 MHz):	Vehicle & Mission Status — 9" Touchscreen

ENGINEERING DRAWING

(Dimensions Format: [in] mm)



Contact us: info@fusionflight.com
Copyright 2026 FusionFlight. All Rights Reserved.

