

## MagPlane v1

Aircraft Specifications	
<b>Dimensions</b>	Wingspan: 96in (2430mm) Fuselage height: 7in (180mm) Fuselage length: 57in (1450mm)
<b>Empty Weight</b>	20.5 lbs (9.3kg)
<b>Payload Capacity</b>	4.85lbs (2.2kg)
<b>Max Take-off Weight (MTOW)</b>	25.4 lbs (11.5kg)
<b>Radio</b>	RFD900 Doodle Labs Radio RM-2450 & RM-915
<b>Standard Endurance</b>	1 hour (without payload) 35 minutes (with payload)
<b>Cruise Speed</b>	38kts (20m/s)
<b>Stall Speed</b>	25kts (13m/s)
<b>Operational Radius (Practical)</b>	10 miles (16km)
<b>Take Off/Landing Type</b>	VTOL (Vertical Take-off & Landing)
<b>Propulsion</b>	4 - 5015 kv170 VTOL motors 1 - 5015 kv210 Cruise motor
<b>Power Source</b>	Electric: 12S2P LiPo Capacity: 20,000 mAh Discharge Rate: 5C Demonstrated Temperatures: [-19°C : 39°C] Ceiling height: 5,000ft
<b>Avionics (Flight Control System, Positioning, Onboard PC, Etc.)</b>	Cube Orange, Nitro Surface Tracking, Integrated Companion Computer, Agnostic IP Radio Compatibility
<b>Autopilot</b>	Arduplane
<b>Airframe</b>	EPO, EVA, carbon fiber
<b>C2/Communication Encryption/Security</b>	See Doodle Labs OEM