

SPIRIT PLATFORM SPECIFICATIONS



AIRFRAME

AIRFRAME DESIGN	Coaxial Unmanned Aerial Vehicle
MATERIALS	Polycarbonates, composites, aluminum 12.0
CORE HEIGHT	inches (305 mm) no battery or payloads
CORE DIAMETER	4.2 inches (106 mm)
TIP-TO-TIP SPAN	25.5 inches (648 mm) when rotating

PERFORMANCE

MAX TAKEOFF WEIGHT	13.5 lbs. (6.1 kg)
CORE WEIGHT	Core Vehicle (no battery or payload) 4.1 lbs. (1.8 kg)
MAX PAYLOAD	Maximum payload: 6.5 lbs. (3.0 kg) with one battery Supports dual payloads (top and bottom)
DRIVE SYSTEM	Direct drive with 2x brushless motors
POWER	12S 44.4 volts Lithium-ion
ENDURANCE	ONE BATTERY: 38 min. w/ no payload 16 min. w/ max payload DUAL BATTERY: 53 min. w/ no payload 32 min. w/ max payload
MAX ALTITUDE	14,600 feet above MSL (5,000 m) (observed)
MAX SPEED	Manual: 60+ mph (100 kph, 27 m/s) Auto (Recommended): 40 mph (65 kph, 18 m/s)
ENVIRONMENTAL	IP56 OPERATING TEMP: -20 to 130F (-28 to 54C) WIND RESISTANCE: CLASS 8 (40+mph)

COMMAND & CONTROL (C2)

AUTO PILOT	Pixhawk Cube. NDAA-compliant, MAVLink compatible. Other autopilot options available.
GPS	GPS, GLONASS, BEIDUO + RTK support. Other options available.
AIRBORNE EQUIPMENT & GCS OPTIONS	A wide range of C2 hardware is available to support manual and autonomous operations. Airborne options include Microhard, Herelink, DoodleLabs, L3Harris and others. GCS options include Herelink, UXV Navigator Tab5, and ruggedized Linux, Windows and Android systems.

Performance details for specific combinations of C2 equipment are available upon request. New C2 options are added often and custom options are available. Please contact us for details.