

SPIRIT PLATFORM SPECIFICATIONS

VEHICLE

AIRFRAME DESIGN	Coaxial Unmanned Aerial Vehicle
MATERIALS	Polycarbonates, composites, aluminum
HEIGHT	12.0 inches (305 mm)
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: 58 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: -40 to 130F (-40 to 54C) WIND RESISTANCE: CLASS 8 (40+ mph)

COMMAND & CONTROL (C2)

AUTOPILOT	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, Silvus, Persistent Systems and DoodleLabs. GCS options include Herelink, UXV Navigator Tab3, Auterion SkyNav, ruggedized Windows PCs and Android/iOS tablets.

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.

