



POWER, PAYLOAD, PERSISTENCE

Zenith Aerotech's Quad-L platform provides advanced power, payload and endurance over other systems on the market today. Quad-L is designed and built in the US and is NDAA compliant.

The frame and support structures are fabricated from lightweight, high-strength carbon fiber. The design is durable, allows for modular payloads, and offers an excellent payload-to-power ratio. Because of the light weight, Quad-L can run off a common 110v wall outlet.

The closed fuselage structure protects internal components from rain and dust. The motor arms and blades are field-replaceable, utilizing a quick release design. Due to its detachable arm design, the Quad-L allows for easier transport. Quad-L supports tethered operation and communication devices, EO/IR cameras or other custom devices up to 8 lbs.

Payloads

The Quad-L supports small ISR payloads and communication relay applications.

Dimensions	
Flight Diameter (excluding props)	850 x 850 mm
Flight Diameter (including Props)	1400 x 1400 mm
Removed Arms Diameter	500 x 500 mm
Height	450 mm

Powerplant	
Number of Motors	4
Number of Arms	4
Motor Max Continuous Power Output	29.3 A (per Motor)
Motor Configuration	36N42P
Motor Ingress Protection	IP45
Equivalent KV	100 rpm/V



Propellers	
Dimensions	28.2 x 9.2 in
Material	Carbon fiber and Epoxy
Propeller Orientation	(2) CW and (2) CCW propellers
Propeller Options	Foldable, winglet tip - low vortex

Battery	
Nominal Battery Voltage and C	44.4V – 150C
Battery Capacity	3250 mAh
Backup Battery Flight Time	12-6 minutes (depends on payload)
Charge Rate	5C Fast Charge Capable

Weight	
Maximum Gross Weight	27 lb / 12.25 kg
No Payload Weight	19 lb / 8.9 kg
Maximum Payload Weight	8 lb / 3.6 kg

Flight Operations	
Hovering Accuracy	Vertical: ±0.5 m (GPS) Horizontal: ±1.5 m (GPS enabled)
Max Pitch Angle	25°
Ascend and Descend Speed	Ascend: 0.7 m/s Descend : 0.5 m/s Descend (last 10m) : 0.3 m/s
Moving Radius	20 meters (geofence)
Environment	Max Wind Resistance 25 mph (dust) Operating Temperature -20°C to 50°C (-4°F - 122°F) Can fly in light and moderate rain up to 7.6 mm (0.30 in) per hour.
Supported GNSS	GPS/Glonass/Beidou/Galileo

Carry Case	
Case Exterior	26.50 x 26.50 x 25.25 in (67.3 x 67.3 x 64.1 cm)
Case Interior	24.00 x 24.00 x 24.00 in (61 x 61 x 61 cm)
Case Weight	32 lbs (14.5 kg)
Case Weight with drone	48 lbs (21.8 kg)

Payload Interface	
Communication	• RJ45 • HDMI (Optional) • Serial (Optional)
Power	• 5V (45W) • 12V (72W) • 24V – 48V or high power optional

