

## Quad-8



### POWER, PAYLOAD, PERSISTENCE

Zenith Aerotech's Quad-8 platform provides advanced power, payload and endurance over other systems on the market today. The Quad-8 is designed and built in the USA and is NDAA compliant. Quad 8 brings quadcopter reliability to another level with two motors and propellers on each of its four arms. The redundant propulsion systems means that the unit can safely land even after the unlikely motor loss.

The closed fuselage structure protects internal components from rain and dust. Due to its foldable arm design, the ZAT Quad-8 allows for easy transport and easier setup. Quad-8 supports tethered operations with various payloads such as communication devices, EO/IR cameras, cUAS radars, illumination panels or other custom payloads up to 20 lbs.

The Quad-8 platform delivers heavy lift performance, redundancy, and reliability for mission critical applications.

### Payloads

The ZAT Quad-8 supports various payloads, including:

- EO/Thermal camera
- Communication Relay
- cUAS Radar
- Payloads up to 20 lbs

#### Dimensions

Unfolded Diameter (excluding props)	740 x 740 mm
Unfolded Diameter (including Props)	1240 x 1240 mm
Folded Diameter	530 x 530 mm
Height	430 mm

#### Powerplant

Number of Motors	8
Number of Arms	4
Motor Max Continuous Power Output	35 A (per Motor)
Motor Configuration	24N28P
Motor Ingress Protection	IP45
Equivalent KV	170 rpm/V



©2022 Zenith Aerotech

The information contained herein is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. You are notified that any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is prohibited.

To learn more, visit [zenithaerotech.com](http://zenithaerotech.com) or call  
**(540) 456-1147**

Propellers	
Dimensions	22.2 x 7.2 in
Material	Carbon fiber and Epoxy
Propeller Orientation	(2) CW and (2) CCW (push) and (2) CW and (2) CCW (pull)
Propeller Options	Foldable, winglet tip - low vortex

Battery	
Nominal Battery Voltage and C	44.4V – 150C
Battery Capacity	6500 mAh
Backup Battery Flight Time	12-6 minutes (depends on payload)
Battery Connectors	XT-90
Charge Rate	5C Fast Charge Capable

Weight	
Maximum Gross Weight	50 lb / 22.68 kg
No Payload Weight	30 lb / 13.61 kg
Maximum Payload weight	20 lb / 9.07 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 30 mph (gust) Operating Temperature -20°C to 50°C (-4°F to 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	31.97 lbs (14.5 kg)
Case Weight with drone	25.40 kg (56 lbs)

Payload Interface	
Communication	<ul style="list-style-type: none"> <li>• RJ45</li> <li>• HDMI (Optional)</li> <li>• Serial (Optional)</li> </ul>
Power	<ul style="list-style-type: none"> <li>• 5V (45W)</li> <li>• 12V (72W)</li> <li>• 24V – 48V or high power optional</li> </ul>

