

AF100



Hardware

Drone type

Electric dual tilt-rotor (eVTOL)

Dimensions

1,000 x 860 x 300 mm [W x L x H]

Weight

4 kg empty

5.9 kg with batteries

7 kg max. take-off weight

Payload

1.2 kg max. weight

Propulsion

2x rotors during operation

Drone battery

1x Li-po battery (403Wh)

Avionics

1x GNSS systems

2x Magnetometer

Connectivity

1x Cellular data link (4G or 5G)

1x RF data link & Video link (5.8Ghz 5km max.)

Operation

Mode

Multi-copter when hovering

Fixed wing when cruising

Flight speed

22 m/s default cruise speed

32 m/s max. cruise speed

Climb speed

2 m/s climb rate

1.5 m/s descent rate

Max. flight time & Range

20 mins. (hovering with 1.2kg payload) / 20 km

35 mins. (level flight with 1.2kg payload) / 30 km

Max. altitude

3000 m AMSL

Auto-landing accuracy

1.5 m (0.1 m with RTK - optional)

Wind resistance

9 m/s average wind, 15 m/s gusts

Operating temperature

-5 ~ 40° Celsius

Weather limits

No operation during rain