

Specifications of M12 – Open Category (C4)

General specifications

	EU	US
Payload	9.1 kg	20 lbs
Max. take-off weight	24.9 kg	54.9 lbs
Total weight (with battery) *	15.8 kg	34.8 lbs
Total weight (without battery) *	11.6 kg	25.6 lbs
Maximum characteristic dimension **	2300 mm	90.5 in
Dimensions (arms & propellers unfolded) (L x W x H)	2060 x 1600 x 600 mm	81.1 x 63 x 23.6 in
Dimensions (arms and propellers folded) (L x W x H)	770 x 540 x 600 mm	30.3 x 21.3 x 23.6 in
Maximum flight time	15-26 minutes (standard) max. 50 minutes (custom development)	15-26 minutes (standard) max. 50 minutes (custom development)
GNSS	GPS, GLONASS, Galileo, BeiDou	GPS, GLONASS, Galileo, BeiDou
RTK correction	Optional Emlid RS RTK base station	Optional Emlid RS RTK base station
Hovering precision	±10 cm (RTK) ±1.5 m (without RTK)	±3.93 in (RTK) ±59 in (without RTK)

Heading	Dual-RTK	Dual-RTK
Rotor dimensions	30 x 11	30 x 11
Battery type	Li-Po Smart	Li-Po Smart
Battery capacity	16000 mAh	16000 mAh
Battery voltage (nominal)	44.4V	44.4V
Battery weight	4.2 kg	lbs
Battery charging time	min. 11 minutes	min. 11 minutes
Battery charger channels	4 ports (2 balance)	4 ports (2 balance)
Battery charger power	3000 W	3000 W
Camera	Wide angle, vertically adjustable (0-180°)	Wide angle, vertically adjustable (0-180°)
Camera resolution	FHD	FHD
Effective signal range of RC	~3.5 km	~2.17 mi
Altitude control	Barometric, GPS, LiDAR(Optional)	Barometric, GPS, LiDAR(Optional)
Obstacle detection and collision avoidance	Optional	Optional
Intrusion protection	Limited water and dust resistance	Limited water and dust resistance
Payload connections		
Power source	5V, 12V, Battery voltage	5V, 12V, Battery voltage

Communication ports	I2C, UART, CAN, USB	I2C, UART, CAN, USB
Signal inputs/outputs	PWM, GPIO	PWM, GPIO
Frequency bands		
Radio Control and Telemetry	2.4GHz	2.4GHz
WLAN	2.4GHz	2.4GHz
LoRA	862–1020 MHz	862–1020 MHz
Flight		
Max. pitch angle	32°	32°
Max. operating flight speed	4 m/s	8.9 mi/h
Max. level speed	15 m/s	33.5 mi/h
Max. flight altitude (AMSL)	4500 m	14763,78 ft
Max. flight altitude (AGL)	120 m	393,7 ft
Max. tolerable wind speed	10 m/s	22.4 mi/h

*The weight parameters vary by $\pm 1\text{kg}$ according to the final product configuration

*The weight parameters vary by $\pm 2.2\text{ lbs}$ according to the final product configuration

** Maximum distance between the tips of two opposite propellers