

PRECISION STRIKE UAV

AtlasA1

2.5 KG PAYLOAD. DUAL SENSOR. GPS-DENIED READY.

A UAV with 2.5 kg payload capacity, high-resolution optical and thermal cameras and an optical navigation module for flight in GPS-denied environments.

An advanced FPV UAV designed for precision strike, carrying a 640 × 512 thermal imager and a 64 MP day/low-light camera for target acquisition. A wide-spectrum jamming-resistant radio, a 2-axis stabilised gimbal, flight without GNSS and 21 minutes of endurance make AtlasA1 an excellent choice for the most challenging battlefield environments.


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2500 g

Armament payload

21 min

Flight time

118 km/h

Max cruise speed

10 km

Radio range

20 m/s

Wind resistance

TARGETING

Stabilised dual sensor

A 2-axis stabilised gimbal carrying a low-light capable camera and a 640 × 512 thermal imager for target acquisition and lock-on.



CHASSIS

Milled carbon frame

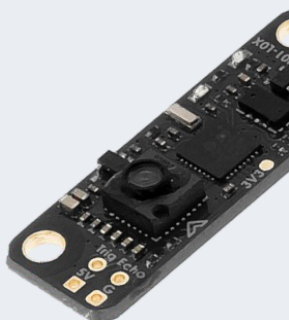
At the core of the AtlasA1 is a sturdy, custom-designed CNC milled carbon frame with built-in adjustable payload attachment strips.



GPS-DENIED

Keeps course without GNSS

An advanced optical position tracking module holds course when satellite navigation is jammed or unavailable.



RANGE

Dual directional antennas

A dual antenna array built into the enclosure extends the operational range to 10 km and beyond.



SPECIFICATIONS

TECHNICAL SPECIFICATIONS

Precision strike UAV · pre-production model

PHYSICAL

Dimensions, w/o props (w × d × h)	376 × 303 × 72 mm
Armament payload capacity	2500 g
Weight, without armament and battery	1390 g
Weight, with battery, without payload	2740 g
Chassis	Carbon fibre composite
Ingress protection	IP44 (designed as)

OPERATIONAL ENVIRONMENT

Operating temperature	-20 °C to +55 °C
Relative humidity	5-95 %, non-condensing

IMAGING PAYLOAD

Still image resolution	64 MP (9248 × 6944)
Day / low-light camera	4K (3840 × 2160) at 60 fps
Thermal camera	VGA (640 × 512) at 30 fps
Gimbal	2-axis stabilised, hall-effect sensors

MAINBOARD

Embedded flight controller	Atlas FCM
Onboard video transcoding	Yes, hardware accelerated
Onboard target tracking	Yes, AI image co-processor
Supported codecs	H.264 / H.265
Onboard storage	Optional MicroSDXC
Secure comms channel	Yes, AES-256 encryption
Cold-start time	<90 s

BATTERY AND POWER

Battery module	6S battery pack
Capacity	10 000 mAh
Charger	145 W
Charge time	95 min



PROPULSION

Motor configuration	Quad-rotor
Flight time	21 min
Max cruise speed	32 m/s (118 km/h)
Wind speed resistance	20 m/s
Max service ceiling (AMSL)	3500 m
Hand / vehicle launch	Yes, up to 20 km/h

ONBOARD SENSORS

GNSS	u-blox 10 (GPS + GLONASS + Galileo)
No-GPS positioning	Daytime optical flow sensor
Altitude radar	Microwave altimeter
Barometer	High-precision, self-calibrating
Onboard sensors	Compass, gyro, IMU, thermometer

COMMUNICATIONS

Primary radio	Atlas ATR-200, up to 1 W
Mesh repeater (AtlasMESH)	Yes
Full extended frequency	2.2 – 2.7 GHz
Frequency hopping	Yes, with adaptive spectral scan
Onboard antennas	Dual omnidirectional, 3 dBi
Radio range	Up to 10 km
Certification	MIC, FCC

ACCESSORIES

Case	Transport hard case
Propeller kit	10" tri-blade props

See AtlasA1 fly

Book a live demonstration or talk to our team about pricing and availability.

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