

# Powerful and rugged multi-rotor unmanned aerial systems

Keelback delivers mission-critical unmanned aerial systems (UAS) with speed and precision. Our end-to-end manufacturing process ensures the highest standards of quality, security, and reliability. Designed for defence, law enforcement, and commercial operations, Keelback provides unmatched adaptability in the field.

## The Mozzie

The small drone to launch into the future.



Developed in collaboration with Australian Defence, the Mozzie™ is a versatile and cost-effective Unmanned Aerial System (UAS) engineered for reliability and adaptability. Designed for sovereign military requirements, it is equally suited for law enforcement, border protection, and civilian applications.

The Mozzie excels in training, surveying, aerial photography, and Intelligence, Surveillance, and Reconnaissance (ISR) operations, delivering near real-time data.

Built for rugged performance, it features a stabilised camera, a lightweight sub-2kg (4.4lb) frame, and a 6km (3.7mi) flight range. The Mozzie meets the Australian equivalent of the USA's Blue UAS Cleared List, ensuring top-tier security and compliance.



**Winner of the Advanced Strategic Capabilities Accelerator's (ASCA) Sovereign Uncrewed Aerial Systems Challenge.**

*"ASCA has worked closely with Industry to achieve a desired capability in a short time, proving that we can build a valuable sovereign base if we work together."*

**Head Advanced Strategic Capabilities Accelerator,  
Professor Emily Hilder**



## Specification

## Description

Size	778mm x 745mm x 110mm with arms and propellers unfolded 208mm x 259mm x 135mm with arms and propellers folded*
Propellor Size	13" x 4" Folding Nylon Fibre Reinforced Propellers*
Maximum Take Off Weight	2,500g
Take Off Weight	1866g
Battery Capacity	Removable 6-Cell 22.2v Nominal Li-ion Pack- 6000mAh 133.2Wh
Maximum Flight Time	40 minutes
Maximum Hovering Time	30 minutes
Estimated Maximum Flight Distance	6km, 12km return
Operating Temperature	0C to +45C
Global Navigation Satellite System	GPS L1C/A, GLONASS L1OF, BeiDou B1I
Proposed Production Certifications	FCC, RoHS, Australian Made, IP54
Gimbal	3-axis electro-mechanical (tilt, roll, pan), IMU Stabilised
Image Sensor	Sony IMX708 12MP, 1/2.43" optical size
Lens	75o DFOV controllable mechanical lens
Photo Format	4608x2592 (12MP), 1920x1080 (1080p), 1280x720 (720p)
Video Format	1920x1080@30fps, 1280x720@60fps
Maximum OTA Video Transmission Bitrate	2,000 kbps
Transmission Frequency	2402MHz – 2478MHz
Transmission Encryption	AES2563402MHz - 2478MHz

True sovereign capability

**Australian owned,  
engineered,  
sourced, and built.**



Keelback products are manufactured in Queensland, Australia, adhering to globally recognised certifications and standards. Our facility draws on 70 years of expertise in complex manufacturing to deliver proven sovereign capability for mission-critical operations.

## Specification Description

<b>Compute</b>	2.4GHz quad-core ARM Cortex-A76 processor with 4Kp60 decoding support H264, H265 HVEC. Can be configured with additional ML compute in M.2 expansion.
<b>Memory</b>	4GB, 8GB, 16GB
<b>Radios</b>	Default to Microhard pMMDL2450 with GPS Module
<b>Battery</b>	21.6V at 3,000 mAh (64.8Wh)
<b>Charge Time</b>	<30 minutes with 240W USB-C PD
<b>Configurable Radio Compatibility</b>	All* (via M.2 Interface), Microhard, Doodlelabs, Codan, Custom (<10W)
<b>Charging</b>	USB-C PD 3.1 adapters up to 240W
<b>Accessories</b>	Sunshade, Neck Strap, Fast 140/240W Chargers, Hard Shell Case, Alternative Radio Options.
<b>Onboard Connectivity</b>	HDMI Out (external), USB 3.0 (external), USB3.0 (internal), M.2 E-Key (includes PCI-E, USB2.0, UART, GPIO, power <10W)
<b>Screen Size</b>	8" 1280x800 High Brightness Display with Automatic Brightness adjustment
<b>Joysticks</b>	2-axis Hall Effect High Accuracy Joysticks on Front Panel and 1-axis Hall Effect High Accuracy Gimbal Controls
<b>Size</b>	272mm L x 148mm H x 57mm D
<b>Buttons</b>	8 Fully Customizable Buttons
<b>Ethernet</b>	Optional Fitment
<b>GPS</b>	Yes
<b>ATAK Compatibility</b>	Yes
<b>Weight</b>	584 grams
<b>OS</b>	Linux and Android 15*

\*Coming in future version.

# Ground Control System

## Effortless Flight Control

Intuitive Ground Control Station offering seamless operation from lift-off to landing.

Rugged all weather device. Configurable. Easy to Operate. Open architecture.

Rugged, sovereign, and ready for mission-critical control.



Australian designed, manufactured, and owned.



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