

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.



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MozzieX

Engineered to dominate the battlefield.



The MozzieX combines combat ready capability with reliable lethality. Built for extended reach across both open and urban terrain with exchangeable payload options. It delivers resilient, consistent performance in harsh and highly contested environments.

Sovereign manufactured to ensure secure, compliant supply and rapid scalability. MozzieX is a production ready platform engineered to support fast fielding and high volume deployment to meet the mission standards demanded of modern frontline forces.

“ASCA is enhancing the resilience of our sovereign industrial base. The Sovereign UAS Challenge has enabled and ensures Keelback (part of Grabba Technologies) has the production capacity to supply drones at scale, as, if and when required.”

Head Advanced Strategic Capabilities Accelerator, Major General Hugh Meggitt

MozzieX

Specifications

Description

Size	35" x 34" x 6" with arms and propellers fitted
Propellor Size	16" x 6" Folding Nylon Fibre Reinforced Propellers
Maximum Take Off Weight	6,200g (13.66 lbs)
Take Off Weight	3,200g (7.05 lbs)
Payload Capacity Weight	2-3 kg (4.4 – 6.61 lbs)
Battery Capacity	Removable 6-Cell 25.2v Nominal Li-ion Pack – 25000mAh 360Wh
Flight Speed	20MPH Cruise, 43 MPH Maximum
Maximum Flight Endurance	40 minutes
Maximum Hovering Time	30 minutes
Estimated Maximum Flight Distance/Range	10km (6.2 miles)
Operating Temperature	-5C to +45C
Global Navigation Satellite System	GPS L1C/A, GLONASS L1OF
Production Certifications/Ratings	IP 54, FCC, RoHS, Australian Sovereign Made, NDAA Compliant
Image Sensor	Sony IMX477 12.3MP, 1/2.3" 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	4,000 kbps
Transmission Frequency	2402MHz – 2478MHz
Transmission Encryption	AES2563402MHz – 2478MHz
Security	Password Protection by user, fully signed firmware, bootloader and encrypted eMMC storage

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Specification **Description**

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

*Coming in future version.



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



Australian designed, manufactured, and owned.

