



VISUALISATION · BEFORE PRODUCTION

PRODUCT SHEET · 01

AKIZU Drone

Starling 2 Max in the AKIZU airframe

A proven development platform from ModalAI, with a VOXL 2 computer, packaged in a compact AKIZU airframe. The airframe protects the electronics and batteries, keeps the cameras behind glass and gives the drone the appearance of a professional tool. The frame, motors and propellers remain unchanged.

~55 min

flight with Amprius cells, base platform (M)

500 g

max. payload, reduces flight time (M)

15 m/s

cruise, 20 m/s short burst (M)

512 mm

propeller-to-propeller span (M)



Overview



PLATFORM	
Base	ModalAI Starling 2 Max ^(M)
Computer	VOXL 2, Qualcomm QRB5165, 8 GB ^(M)
Cameras	2 × Sony IMX412 12 MP, 2 × AR0144 1 MP, optional ToF ^(M)
Navigation	GNSS u-blox M10, IMU, barometer ^(M) ; manufacturer reports issues with the current GPS version
Connectivity	Wi-Fi, Microhard, 4G or 5G ^(M)
RC control	Ghost Atto 2.4 GHz or ELRS 915 MHz ^(M)
NDAA	depending on configuration; the ELRS version is not NDAA-compliant ^(M)

DIMENSIONS AND PERFORMANCE	
Span	512 mm diagonal, 120 mm height ^(M)
Take-off weight	500–566 g depending on source ^(M)
Batteries	2 × 2S 18650 in series (4S), max 16.8 V ^(M)
Flight	~55 min with Amprius, ~40 min with Li-Ion ^(M)
Wind	gusts up to 15 m/s ^(M)

AKIZU AIRFRAME	
Material	PA12 with glass fibres ^(E)
Additional weight	target 60–80 g ^(T)
Video	VERA, 240 fps main profile ^(D)

Colours



Deep Navy



Light Grey

Before production

Verify camera and ToF fields of view, GNSS and 5G attenuation through the cover, centre of gravity and endurance with the airframe.

^(M) stated by manufacturer for the base platform, unverified with the AKIZU airframe · ^(D) VERA design · ^(T) target · ^(E) design estimate

Sources: Starling 2 Max datasheet, ModalAI Starling 2 Max. Images are visualisations. Starling is a product of ModalAI, Inc.

