

AIRBORNE ALTIMETER

VALLUS

60GHz low-power FMCW radar provides accurate altitude measurements above terrain for drones. It enables instant and reliable height referencing for enhanced flight safety and situational awareness.

CUTTING EDGE TECHNOLOGY

By adopting advanced low-power FMCW (frequency modulated continuous wave) technology, this altimeter provides reliable and accurate altitude information for drones with a detection range of 0.16 ~ 164ft above terrain.

AI EMPOWERED ALGORITHM

The AI-empowered algorithm facilitates the capability of target clustering and increases environmental awareness. The altimeter intelligently adapts to its environment to minimize false alerts. It delivers instant and reliable height reference for the drones to enhance flight safety and situational awareness.

EASY INTEGRATION

The modular design and user-friendly interface make the altimeter easy to deploy and use. The open-architecture communication protocols offers a seamless integration into your current systems.

24/7 PROTECTION IN ALL CONDITIONS

The altimeter is immune to many environmental conditions, such as light, rain, dust, fog, and smoke. With a built-in, industry-certified rugged design, it ensures stable performance and continuous, all-weather protection even in the harshest environments.



KEY BENEFITS:

- Frequency: 60GHz
- Millimeter-level accuracy in altitude measurements
- Detection range up to 160ft above terrain
- Compact
- Lightweight
- Low power
- Affordable and easy to deploy
- Reliable system to enhance flight safety in all-weather conditions

*Note that appearances, specifications and functions may be different without notice.

AIRBORNE ALTIMETER SPECIFICATIONS	
Model	AXDXM60A1-5T
Key specifications	
Max detection range	0.16 ~ 164 ft (0.05~50 m)
Range accuracy	± 0.4 in (10mm)
Field of view	±8° (horizontal and vertical)
Radar parameters	
Radar type	Frequency Modulated Continuous Wave (FMCW)
Frequency band	60GHz
Power	
Power supply	DC 5~12 V
Power consumption	0.2W@20Hz 0.1W@2.5Hz
Remotes package	
Protocols	MAVLink or DroneCAN (Selectable)
Communication interface	UART (TTL) or CAN (Selectable)
Flight controller	PX4 (PX4 Autopilot)
Refresh rate	Up to 20 Hz
Environmental	
IP rating	IP67
Working temperature	-4 ~ +158 °F (-20 ~ +70 °C)
Weight & size	
Dimension	1.9*1.9*0.8 in (47.2*47.2*21.5 mm)
Weight	0.07 lb (30 g)