

μLanding Lite™ Altimeter

Sensing. Processing. Creativity.

Feb 9, 2017

Product Overview

The μLanding Lite is a compact microwave radar altimeter based on Aerotenna's miniaturized



radar technology. μLanding Lite is especially engineered for low profile and low power consumption in UAV applications.

μLanding Lite provides accurate above-ground-level (AGL) altitude information in real time for autonomous takeoff, landing, and waypoint navigation for UAVs/drones, as well as maintaining a target altitude during flight. μLanding Lite is the smallest and lightest radar altimeter on the market, and is a great solution – even for small drones.

Designed with the end user in mind, μLanding Lite features quick installation, ease of use, and a seamless interface with Aerotenna's OcPoC SoC flight controller, or other flight controllers. It supports all terrain or surfaces with exceptional performance over water and bushes. The benefits to Drone makers, developers, and service providers:

- Low cost
- Fit into small UAVs
- High accuracy in all weather conditions
- Detection for all-terrain
- Low power consumption for longer flight time
- Easy plug and play integration

Specifications

Sensor Performance	
Radio frequency	24 GHz
Maximum Range	45m
Minimum Range	0.35m
Accuracy	5cm
Transmission output power	Total: ~22.5 dBm <ul style="list-style-type: none">• 4.5 dBm transmitter power• 18 dB antenna gain
Update rate	800 Hz (max.)
Horizontal & Vertical Field of View (-3 dB Tx Power)	30 degree * 20 degree
Mechanical	
Dimensions	68mm * 78mm * 15mm
Weight	30g without housing, 60g with housing
Interfaces	
Supported Interface	UART, CAN(per customer request)
Supported Connector	4 Pin GPIO/JST
General	
Power Consumption	1.25 W
Power Input	5V DC, 250mA
Operational Temperature Range	5°F to +122°F (-15°C to +50°C)