

# RADAR ALTIMETER

## GENERAL DESCRIPTION

TUALCOM Radar Altimeter is a lightweight, ultra compact, FPGA based, airborne altimeter providing accurate above ground altitude measurements.

With its modular FPGA based design and advanced digital signal processing (DSP) techniques, TUALCOM Radar Altimeter offers a low SWAP, low-cost, high-performance system.

The system can be employed in unmanned airborne vehicles, helicopters, aircrafts and missiles. State-of-the-art signal processing and high computation rate allow accurate altitude measurements for ultra high-speed platforms up to 1.5 Mach

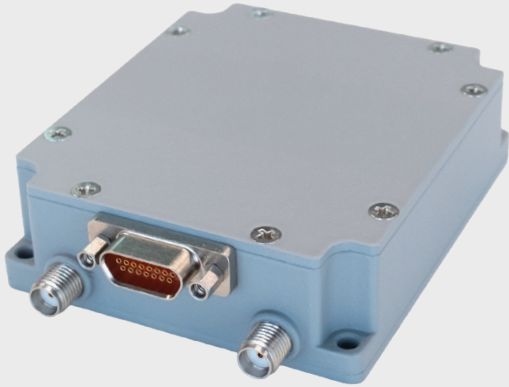
## BENEFITS

- All-Weather Operation,
- Lightweight,
- Ultra Compact Solution,
- High Accuracy,
- Modular, FPGA Based Design,
- Built in Self-Test,
- Compliant with Military Standards,
- Suitable for High Speed Platforms,
- Easy to Install,
- Integrates Easily into New or Legacy Platforms.

## APPLICATION AREAS

- Unmanned Air Vehicles,
- Fixed/Rotary Wing Aircrafts,
- Unmanned Autonomous Systems,
- Missiles.

# RADAR ALTIMETER



## Dimensions (mm)

70 x 61 x 20

## Weight (g)

200 g

## Frequency

4.2 GHz - 4.4 GHz



### Altitude Accuracy

90 cm or %1 (whichever is bigger)



### Maximum Platform

Velocity 500 m/s



### Output Power

27 dBm



### Input Voltage

12-32 VDC



### Nominal Power Consumption

10 W



### Interface

RS422 / 485 / 232  
(Ethernet Option)



### Update Rate

50 Hz



### Environmental Conditions

MIL-STD-810G



### EMI / EMC

MIL-STD-461F



### Minimum Altitude

2.8 m



### Maximum Altitude

1500 m

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