



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

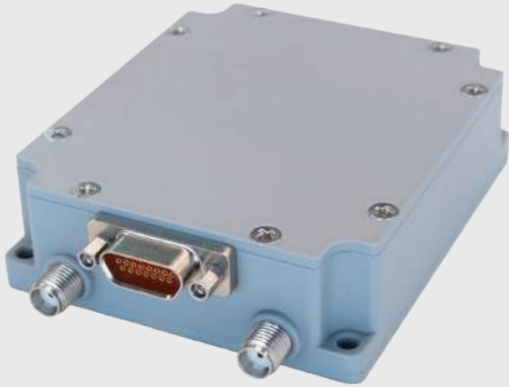
BENEFITS

- 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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