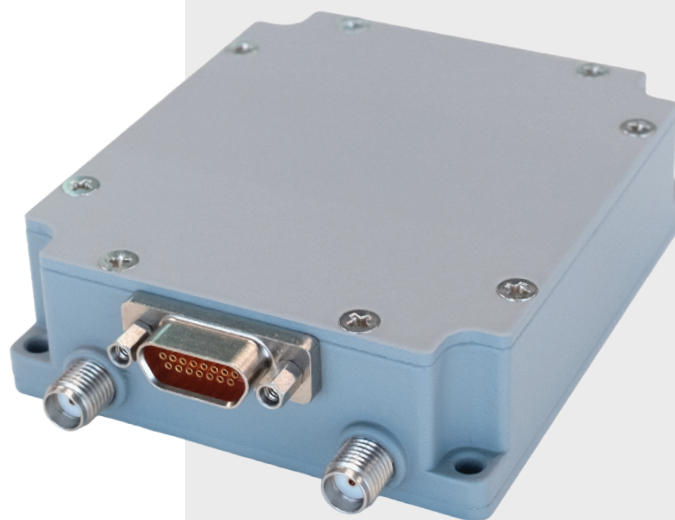




RADAR ALTIMETER

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

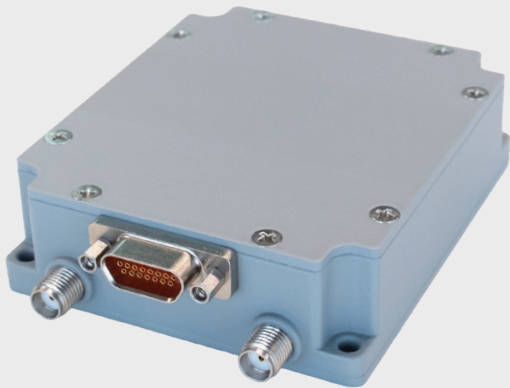
BENEFITS

- 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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