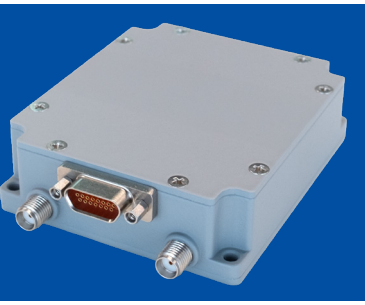
TUALCOM

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.

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SPECIFICATIONS

Minimum Altitude	2.8 m
Maximum Altitude	1500 m
Altitude Accuracy	90 cm or %1 (whichever is bigger)
Maximum Platform Velocity	500 m/s
Frequency	4.2 GHz - 4.4 GHz
Output Power	27 dBm
Input Voltage	12-32 VDC
Nominal Power Consumption	10 W
Interface	RS422/ RS485/ RS 232 (Ethernet option)
Update Rate	50 Hz
Weight	160 g
Size	70 x 61 x 20 mm
Operating Temperature	-40° C/ +71° C
Environmental Conditions	MIL-STD-810G
EMI, EMC	MIL-STD-461F

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