

CRA C-Band Radar Altimeter

Accurate Altitude

CRA C-Band Radar Altimeter is designed and manufactured by Meteksan Defence for unmanned vehicles, helicopters, planes and missiles. CRA is a family of radar altimeter which is lightweight and small in size, allows low altitude and sea skimming flights.

Specifications

CRA is a Linear Frequency Modulation C-Band Radar Altimeter designed to operate on high maneuverability manned and unmanned.

Altimeter which transmits continuous wave, consists of Transmitter/Receiver RF components and high technology Signal Processing unit. Altimeter Antennas are separate and allow plug and play installation on platforms.

CRA produces high precision altitude data during flight for platforms with velocity up to 300 m/s. CRA is a lightweight and small in size product that has maximum altitude of 2500 / 5000 ft and minimum altitude of 2 meters.

CRA is preferred by domestic and abroad customers commonly. CRA is compliant with EMI/EMC and environmental condition tests.

CRA is preferred by air vehicles in safe, has built in test capability, low power consumption, low radiated power and standard serial communication capability.



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C-Band Radar Altimeter



Lighweight and Competitive Solution

CRA, C Band Radar Altimeter configuration consists of; Radar Unit, 2 pieces Antenna, 2 pieces RF coaxial cable and power/data cable providing interface with platform.

Total weight of CRA is less than 850 gr.

Key Features



Tested product with flights



Lightweight and compact solution



Built in test ability



Low Probability of Intercept (LPI)



High precision even in high velocities



Easy and fast installation



	CRA - 501	CRA - 201
System Architecture		Continuous Wave Frequency Modulation
Altitude Information		
• Minimum Altitude	1500 m (5000 ft)	750 m (2500 ft)
• Maximum Altitude		
• Altitude Accuracy		± 2 ft / %2
Other Performance Specification		
• Platform Horizontal Velocity		300 m/s
• Update Rate	50 Hz	66 Hz
• Antenna Beamwidth		40-45 degrees
• Built in Test Ability		Initiated BIT, Periodic BIT, RF Loop Test
• Low Probability of Intercept (LPI)		Low RF Power, High Bandwidth, Power Management
Electrical Specification		
• Power Consumption		< 16 Watt
• Radiated Power	< 0.5 W (peak value)	< 0.25 W (peak value)
• Input Voltage		12-32 VDC
Operating and Storage Conditions		
• Operating temperature		-35° C / +60° C
• Storage temperature		-40° C / +65° C
Communication		
• Standard		RS422 ya da RS485
Physical Specification		
• System Weight		< 450 g (Radar Unit) < 850 g (All system)
• Size		171x111x18 mm
Environmental Tests		
• MIL-STD-461G		CE106, CS103, CS104
• MIL-STD-810G		Temperature, Vibration, Shock, Humidity, Rain, Fungus