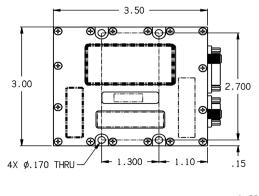
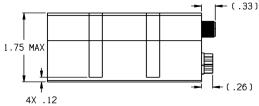
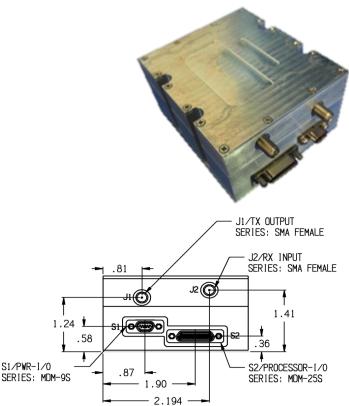
## Radar Altimeter Model 4504



The CAES 4504 Radar Altimeter (RALT) is a low cost, all-weather system that meets the demanding performance requirements of manned and unmanned systems, including hypersonic platforms. It does so in a small volume package with low power consumption. The 4504 design is an evolution of production, flight proven, Ultra RALT for unmanned systems. The 4504 is operationally resilient to potential 5G interference through optimized front end filtering and waveform tolerance compared to traditional pulsed RADAR Altimeters.









## Radar Altimeter Model 4504

FEATURES:	• 5G Compatible
	Digital Signal Processor Based
	Leading Edge Tracking
	FM/CW Waveform
	<ul> <li>Spread Spectrum with &gt;100 MHz Deviation</li> <li>Dynamic Adaptive Power Control (APC) Based on Measured Received</li> </ul>
	Signal Strength
	Configurable maximum transmit power up to +26 dBm
	Doppler Immunity
SPECIFICATIONS:	Altitudo Dangou 0 - 8 000 ft
	<ul> <li>Altitude Range: 0 - 8,000 ft.</li> <li>Altitude Accuracy: &lt;900ft: +/- 1ft + 1% altitude &gt;900ft: +/- 10 ft</li> </ul>
	<ul> <li>Analog Accuracy: +/- 50 mV</li> </ul>
	<ul> <li>Track Rate: &gt;5000 ft./sec. supporting Hypersonic Operations</li> </ul>
	Frequency: 4200-4400 MHz
	Maximum Transmitter Output Power: +26 dBm typical
	Update Rate: 50 Hz
	<ul> <li>Minimum Tx/Rx Isolation at or below 4000 ft.: 75 dB Enables Dual-</li> </ul>
	port, Single Antenna Options
	- 80 dB at 8000 ft.
OUTPUTS:	Analog Output: 20 VDC max., programmable slope and offsets -5
	VDC to +20 VDC, with programmable slopes and offsets
	Digital Output: RS-422, ARINC 429
	Configuration I/F: RS-232 (not an altitude output)
	Out-of-Range Indicator: 5 VDC TTL
	<ul> <li>Size (excluding connectors): 3.5" X 3.0" X 1.75" (88.9 mm X 76.2 mm X 44.5 mm)</li> </ul>
	• Weight: 1.2 lbs.
	• EMI: MIL-STD-461E
	Environmental: MIL-STD-810F
POWER, MECHANICAL & ENVIRONMENTAL:	• Power: 18-36 VDC, Ripple <3V pk-to-pk
	Reverse Polarity Protection included
	Power 9-15W DC Max, Maximum Altitude Configuration Dependent
	• Temperature: 40°C to +77°C, Operating 55°C to +125°C, Storage
	<ul> <li>Connectors: SMA(F) for Tx &amp; Rx Ports, 9-Pin Micro-D for Power Por 25-Pin Micro-D for RS-422, Analog, and Discrete Outputs</li> </ul>
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ADDITIONAL	• Built-In Self Test
FEATURES:	<ul> <li>Configurable Analog and Digital Altitude Outputs</li> </ul>



## Radar Altimeter Model 4504

- User Configurable Options:
  - RS-422 Output Format
  - Maximum Altitude
  - Analog Scaling
  - Zero Offset
  - Maximum Tx Power
  - Redundant Unit Operation

