



CU-9125

150 WATT AUTOMATIC ANTENNA COUPLER



The Sunair CU-9125 is a proven solution in communications applications where rugged, reliable and flexible equipment is required. The antenna coupler is microprocessor-controlled and operates continuous duty at power levels up to 150W for antennas at least 23 feet in length. Typical tuning time is 1 second at any new frequency across 1.5 – 30 MHz, and 10 ms from memory.

The Sunair CU-9125 is built to meet harsh environmental requirements of exposed dust and saltwater installations, such as transportable

shelters, rooftop, and shipboard. Designed as a companion to the Sunair 9000D series radios, the product can also be interfaced to other manufacturers' available HF products. The antenna coupler's intuitive modular design allows for ease of maintenance and upgrade throughout the equipment life cycle at minimal expense. Thousands are in daily service as integral components of critical strategic communications solutions worldwide.

- **Continuous Duty Operation**
- **Operation With Whips and Long Wire Antennas**
- **Line Flattener for High VSWR Broadband Antennas**
- **10 ms Tuning From Memory**
- **Comprehensive BITE to LRU**
- **Low RF Output During Tuning**
- **Ruggedized For Exposed Installations**

PRODUCT SPECIFICATIONS

GENERAL	
Frequency Range	1.5 – 30 MHz
RF Input Power	150 W PEP and Average
Duty Cycle	* Continuous for Antennas > 23 Feet * 50% (Maximum 5 Minutes Continuous Key Time) for 9 and 16 Foot Antennas
Tuning Capability	Vehicular or Fixed Station Whips; Long Wire Antenna or Line Flattener for Broadband Antennas
Tuning Time	1 Second Typical; 7 Seconds Maximum; 10 ms From Memory
Tuning Power	25 W
Tuning Accuracy	1.5:1 VSWR Or Better
Channel Memory	128
Input Impedance	50 Ω Nominal Via N Female Connector
Remote Capability	Maximum 250 Feet (76m) With Standard Control Cable Assembly
Input Power	28 VDC \pm 15% from Radio; 1 Amp Maximum
MTBF	10000 Hours
MTR	30 Minutes
Dimensions	* 9.1 H x 9.6 W x 11.4 L (in) * 23.1 H x 24.4 W x 29.0 L (cm)
Weight	23 lbs (10.5 kg)
Construction	Rain Tight for Exposed Installations; Aluminum Welded Case
Mounting Orientation	Unrestricted
Origin	Designed and Manufactured in the U.S.A.

PERIPHERAL EQUIPMENT OPTIONS	
Spares Kits	Field Modules
Radios	RT-9000D / R-9000D / T-9000D
Other	* Transport Case * Shockmount Kit

ENVIRONMENTAL	
Temperature	* Operating: -30°C to +65°C (-22°F to 149°F) * Storage: -55°C to +85°C (-67°F to 185°F)
Humidity	MIL-STD 810F, Method 507.4
Shock	MIL-STD 810F, Method 516.5
Vibration	MIL-STD 810F, Method 514.5 & MIL-STD-167-1
Dust	MIL-STD 810F, Method 510.4, Procedure 1
Rain	MIL-STD 810F, Method 506.4, Procedure 1
Altitude	* Operating: Up to 10,000 Feet * Storage: Up to 40,000 Feet



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