

## CU-9125/DCU-100 Automatic Digital Antenna Coupler Product Information Sheet



- 150 WATTS PEP/AVG
- 128 CHANNEL MEMORY
- TUNING IN 10 MILLISECONDS
- MICROPROCESSOR CONTROLLED
- FULLY DIGITAL IN DESIGN
- RUGGED CAST ALUMINUM CASE

The **CU-9125** and **DCU-100** are microprocessor controlled high speed digital 150 Watt antenna couplers. The units are fully digital in design, therefore eliminating any mechanical failures associated with servo motors, wheels, gears, and belts. Their modular construction permits field replacement of boards for quick return to operation. The couplers are capable of tuning most commonly used base and mobile antennas throughout the range of 1.6 to 30 MHz.

When the **CU-9125** is activated by a command from the 9000 series transceiver, the coupler's compatible 128 channel memory provides virtually instantaneous tuning. The **DCU-100** is the companion coupler for the GSB-900 Transceivers, that is activated from the coupler control panel on the radio.

Both couplers are designed to meet stringent military specifications for shock, vibration, and protection from the outside environment. It is in a completely sealed rugged cast aluminum enclosure especially designed for installation in exposed areas.



# CU-9125/DCU-100

## Automatic Digital Antenna Coupler Product Specifications

**DCU-100**  
**CU-2229A**  
**CU-9125**

**Sunair P/N:** 8080001057  
**Sunair P/N:** 8080700290  
**Sunair P/N:** 8085001055

**NSN:** 5820-01-322-4226  
**NSN:** 5985-01-190-7061  
**NSN:** 5985-01-334-3301

### GENERAL

**FREQUENCY RANGE:** 1.6 to 30 MHz

**TUNING CAPABILITY:** 9-16 Ft. vehicular whips, 23-35 Ft. whips, 50-150 Ft. longwire antenna. Line flattener for broadband antennas.

**MEMORY CHANNELS:** CU-9125:128 nonvolatile  
DCU-100: 30

**RF INPUT POWER:** 150 Watts PEP and average

**DUTY CYCLE:** Continuous for antennas 23 feet and longer. Fifty percent (maximum 5 minutes continuous key time) for 9 and 16 Ft. antennas.

**TUNING TIME:** Memory Tuning - 10 milliseconds, nonmemory tuning - one second typical, seven seconds maximum.

**TUNE POWER:** 25 Watts

**TUNE ACCURACY:** 1.5:1 VSWR or better

**REMOTE CAPABILITY:** Up to 250 Ft. from transmitter.

**POWER INPUT:** 28 VDC from transmitter, 1 amp max.

**PACKAGING:** Rain tight for exposed installations.

**DIMENSIONS:**

Inches (CM): 9.1"H (23.1) x 9.6"W (24.4)x 11.4"D (28.96)

**WEIGHT:** 23 LBS (10.35 KGS)

### ENVIRONMENTAL

**TEMPERATURE:** Operating -30°C to + 65°C  
Storage -55°C to + 85°C

**HUMIDITY:** MIL-STD-810F, Method 507.4

**SHOCK:** MIL-STD-810F, Method 516.5

**VIBRATION:** MIL-STD-810F, Method 514.5

**DUST:** MIL-STD-810F, Method 510.4, Proc I

**RAIN:** MIL-STD-810F, Method 506.4, Proc I

**MTBF:** 10,000 h

**MTTR:** 30 min

### MILITARY CONFIGURATIONS

**DCU-100** Color Grey  
P/N: 8080001057 NSN:5820-01-332-4226

**CU-2229A/URC-92** DCU-100 Color O.D.  
P/N: 8080700290 NSN:5985-01-190-7061

**CU-2385/U** DCU-150 Color O.D.  
P/N: 9187533006 NSN:5985-01-275-4777

**CU-9125AF** Color Grey  
P/N: 8107200098 NSN:5985-01-334-3301

*Specifications subject to change without notice.*



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