



## RCU-8310

### Remote Control Unit



The Sunair RCU-8310 is a full-function remote control unit, now capable of operating up to eight (8) transceivers, transmitters, or receivers from the 8400 series. The next-generation RCU is equipped with a larger 7-inch TFT display, which is now touchscreen, along with keyboard entry. Its front panel is physically identical to the front panel of the unit it controls. This ensures operational simplicity.

The RCU offers a full set of operating modes, including AME, NB-FM, USB, CW, Data, as well as remote control of Automatic Link Establishment (ALE) functions when the RT-8400 is equipped with the internal ALE option. These capabilities match the operating modes available on the radio itself. The RCU-8310 also allows remote operation of Sunair peripheral equipment including the F-9810 Pre-Selector/Post-Selector, the LPA-8210/8220 Power Amplifiers, and the CU-9125/CU-9150 Antenna Couplers.

It is possible to connect the RCU-8310 to the remote radio using RS-232/RS-422 for short distances, Ethernet for longer distances, or leased lines (requires the optional internal FSK modem).

Advanced built-in-test (BITE) capability provides feedback to the lowest replaceable unit (LRU) level for both the local RCU as well as the companion 8400 series radio. The remote control's intuitive modular design allows for ease of maintenance and upgrade throughout the equipment life cycle at minimal expense.

- Analog or VoIP Audio Interface
- Remote Control via Serial and Ethernet
- Controls Multiple Radios
- Comprehensive BITE to LRU
- Identical to Radio Front Panel
- Secure Digital Voice (MELPe S4591)

# Product Specifications

General	
<b>Serial Communications</b>	
<b>Digital</b>	* RS-232: 300, 600, 1200, 2400, 4800, 9600 bps * RS-422: 300, 600, 1200, 2400, 4800, 9600, 19200 bps * Ethernet
<b>Analog</b>	FSK
<b>Word Length</b>	10 Bits (1 Start, 7 Data, 2 Stop); No Parity
<b>Control Data Format</b>	ASCII
<b>Control Operation</b>	Asynchronous
<b>Control Capacity</b>	Up to 8 radios
<b>Input Power</b>	* DC: 28 Vdc * AC: 115 / 230 Vac $\pm$ 15%, 47 Hz to 63 Hz
<b>Audio Output</b>	* 5 W Into Internal Speaker, < 1% THD * 600 $\Omega$ balanced @ -20 dBm to +10 dBm * Headset: Low Impedance
<b>Audio Input</b>	Microphone and 600 $\Omega$ balanced at -20 to +20 dBm
<b>MTBF</b>	39,390 Hours
<b>MTTR</b>	15 Minutes
<b>Dimensions</b>	* 5.96 H x 17.83 W x 10.0 L (in) * 15.1 H x 45.3 W x 25.4 L (cm)
<b>Weight</b>	15 lbs (6.8 kg)
<b>Construction</b>	Modular Plug-In Assemblies, Field Serviceable
<b>Origin</b>	Designed and Manufactured in the U.S.A.

Peripheral Equipment Options	
<b>Mounting</b>	* Shroud and Rack Slides For EIA Standard 19 Inch Rack * Desktop * Shockmount Kit
<b>Spares Kits</b>	Running Spares, Field Modules
<b>Radios</b>	RT-9000E / R-9000E / T-9000E

Environmental	
<b>Temperature</b>	* Operating: -30°C to +55°C (-22°F to 131°F) * Optional: +60°C (140°F) * Storage: -40°C to +85°C (-40°F to 185°F)
<b>Humidity</b>	95% at 55°C (122°F), Non-Condensing; Splash-Resistant Front Panel
<b>Shock</b>	MIL-STD 810F, Method 516.5, Procedure 1
<b>Vibration</b>	MIL-STD 810F, Method 514.5 & MIL-STD-167-1
<b>Altitude</b>	* Operating: Up to 10,000 Feet * Storage: Up to 40,000 Feet

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Specifications are subject to change without notice or obligation. Revised: December 2025.

US export control laws may apply to some options