



# RT-5000

- Maximum interoperability AM/FM, 29.7-960 MHz
- Relay, simulcast, repeater capabilities
- 10 watts power across all bands for increased distance and clarity
- Reduced cockpit heat and EMI



# RT-5000

Remote-mount, multi-band, AM/FM transceiver

## PRODUCT FEATURES

### RT-5000 remote-mount AM/FM transceiver

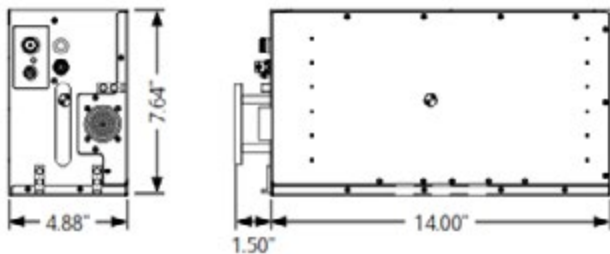
Canyon's RT-5000 base transceiver, covering the 29.7 to 960 MHz band, can replace up to six transceivers. An additional, tunable "guard" receiver may be added for monitoring an additional frequency. This guard receiver is fully synthesized and covers the same 29.7-960 MHz range as the main transceiver.

The RT-5000 is controlled by Canyon's C3-enabled C-5000 control head or compact CD-5000. Each interfaces to the RT-5000 via a proprietary serial tuning bus that reduces wiring complexity and installation costs.

A single antenna has been designed to meet the full frequency spectrum of the RT-5000, allowing easy installation on a large variety of aerial platforms.

The latest versions of the RT-5000 transceiver can perform P-25 digital modulation across the entire range, plus up to two additional modules can be added to cover the VHF, UHF, and 700/800 MHz that add Trunking and Motorola-proprietary radio network features, giving the user unprecedented communications interoperability.

With cross-band relay, simultaneous multi-band transmission and repeater functions, along with widest frequency and modulation coverage, Canyon's single transceiver/single control head/single antenna solution delivers enhanced mission capabilities and addresses all Public Service communications needs.



## Technical Specifications

### Voltage Requirements

27.5Vdc +/- 20%

### Current Requirements

Receive: 2.5A

Transmit: 10.0A max.

### Mechanical

Height: 7.64"

Width: 4.88"

Length: 14.00"

Weight (approx.): 15.8 to 19.0 lbs (7.17 to 8.62 kgs)

### Temperature

-22°F to 140°F (-30°C to +60°C)

### Channeling

12.5/20/25/30/50 kHz

### Tunability

1.25 kHz steps

### Options

Synthesized guard (29.7-960 MHz)

### Certification

FAA PMA/STC

### Frequency Range

AM/FM Analog 29.7-960 MHz, including bands:

- 30-50 MHz Mobile radio
- 50-88 MHz Military
- 87.5-108 MHz FM broadcast
- 108-118 MHz VOR voice
- 118-154 MHz ATC & Civil Air Patrol
- 136-178 MHz Mobile radio
- 156-174 MHz Maritime
- 225-400 MHz Military
- 380-470 MHz Mobile radio
- 450-520 MHz Mobile radio
- 764-870 MHz Mobile radio

Project 25 with Trunking and encryption, including bands:

- 136-178 MHz Mobile radio
- 380-470 MHz Mobile radio
- 450-520 MHz Mobile radio
- 764-870 MHz Mobile radio



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Canyon AeroConnect is a global supplier of avionic-standard aircraft communications, navigation and audio/intercom systems