CANYON aeroconnect

RT-7000

Remote–Mount Radio **(RMR)**

Multi Band, Multi Transceiver

Dual RMR installation provides up to six independent channels

- 29.7 – 960 MHz AM/FM P25 Phase 1 & 2
- Each LRU accommodates up to three transceivers: Motorola APX 8000; Wideband; Search & Rescue
- Connectivity for up to two handheld devices
- Uniquely designed for maximum interoperability and upgradability

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Communications Without Limitations

Canyon RT–7000 Airborne Tactical Radio is part of a comprehensive and flexible aircraft communications system. Installation options include panel, cabin, and remote positions.

RMR, Remote-Mount Radio

The RT–7000RMR is an LRU designed to be rack–mounted in fixed–wing aircraft or helicopters. Each RMR can contain three independent transceivers, and will interface with up to two handheld radios. Two variants of the RMR mounting rack are available: single rack to accommodate one RMR, and a dual rack to accommodate two RMRs.

Audio Panel

The RMR is designed to interface with standard aircraft audio systems. Channel 1 may be configured to interface directly with a headset.

Antennas

The RMR has an independent coax output for each installed transceiver.
The coax outputs may be connected to a variety of antennas and/or switches.

PMR

RMR

RT–7000 Airborne Tactical Radio Family

Whatever your mission or aircraft, the RT–7000 family has you covered from nose–to–tail:

- Panel–Mount Radio (PMR) – User–interfaced radio, designed for cockpit installation and use by Pilot or Co–pilot.
- Remote Control Display Unit (RCDU) – User–interfaced radio, designed for secondary–position installation, such as the cabin, and use by EMTs, TFOs, etc.
- Remote–Mount Radio (RMR) – Designed for remote installation, and is controllable by a PMR, RCDU, or MCDU. An interface control document is available for selected MCDU's.

RCDU

Incomparable Versatility

The architecture of the RMR is designed to accommodate up to three radio modules, covering the entire 29.7 – 960 MHz spectrum, delivering unsurpassed communication coverage.
The configuration may be any combination of:

- CanyonWideband Transceiver
- Motorola APX 8000
- Canyon Search and Rescue Module

RMR Specifications

Tunability
1.25 kHz Incremental Tuning

Mode
FM/AM/P25/Trunking

Wideband Transceiver Frequency Bands

30.000–50.000 MHz	Mobile Radio
50.000–88.000 MHz	Military
88.000–117.999 MHz	FM Broadcast
108.000–118.000 MHz	VOR Voice
118.000–154.000 MHz	ATC and Civil Air Patrol
136.000–173.999 MHz	Mobile Radio
156.000–174.000 MHz	Maritime Radio
225.000–400.000 MHz	Military
380.000–959.999 MHz	Mobile Radio

Receive and/or transmit access to frequencies in each band may be configured

APX–8000 Module Bands

136–174 MHz	P25 VHF FM
380–520 MHz	P25 UHF FM
764–870 MHz	P25 7/800

Channeling
6.25/8.33/12.5/25.0 kHz

Search and Rescue Module Frequencies

121.5 MHz	AM (Civil Aircraft Emergency)
243.0 MHz	AM (Military Aircraft Emergency)
156.8 MHz	FM (Marine Voice Emergency)
156.525 MHz	FSK (Marine Digital Emergency)

Temperature
–40C to + 55˚C

Continued...

RT-7000 Remote-Mount Radio **(RMR)**
Multi Band, Multi Transceiver

RMR Specifications Continued

Altitude
55,000 feet

Power Requirements
Nominal Input Voltage: 27.5 ±0.5 VDC
Range: 18 to 33 VDC input
Current: TX (normal) 10 amps max
RX (idle): 4 amps typical

Transmit Power
- ATC COMS – 4W Min
- AM – 4W Min
- FM – 10W
- P25 Conventional – 10W
- Motorola modules – VHF – 6W
  – UHF – 5W
  – 100/800 MHz – 3W
- Contact us about add-on external amplification options

APCO P25
- All P25 Bands – Conventional Common Air Interface (CAI)
  – Phase 1, 2 Trunking
  – Analog Trunking (SmartZone, SmartNet)

Encryption
- FIPS 140-2, Level 2/3
- P25 AES & DES
- Analog DES, DES-XL, DVP
- P25 OTAR
- Multikey

Dimensions

	HEIGHT	LENGTH	WIDTH
Single RMR	4.38"	8.24"	5.00"
Double RMR	4.38"	16.48"	5.00"

Weight

Single RMR
- < 10 lbs. (4.5 kg)
- 1 module: 6.8 lbs. (3.1 kg)
- 2 modules: 7.9 lbs. (3.6 kg)
- 3 modules: 8.9 lbs (4.0 kg)

Double RMR
- < 20 lbs. (9.0 kg)
- 2 modules: 13.6 lbs. (6.2 kg)
- 4 modules: 15.8 lbs. (7.2 kg)
- 6 modules: 17.8 lbs. (8.0 kg)

Certification
- DO-160G/EUROCAE/ED14 test rated FCC Part 15, 22, 80, 87, 90
- EU (RED) Certification – Future
- Level C EUROCAE ED-12B
- RTCA DO-178C/EUROCAE/ED12 *
- RTCA DO-254/EUROCAE/ED80 *
- FAA TSO-C169a *
- EASA ETSO-2C169a *
- FAA STC/PMA – Future
- FCC Grant Approval – Certified to parts 15, 22, 80, 87, and 90
- Industry Canada (IC) Certified
- Anatel Brazil Certification – Pending

** TSO Certification Pending*

MADE IN U.S.A.

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