



## TALON™ RT-8200 SERIES RADIO

# REPROGRAMMABILITY IN A SMALL PACKAGE

## Optimum multimode communications

The Collins Talon™ RT-8200 series radio combines outstanding performance with exceptional capability and flexibility in a small package. It integrates state-of-the-art digital technology with software reprogrammability to create a multiband/multimode capability. The system offers voice and data communications for increased interoperability, flexibility and combat effectiveness.

By offering a fully digital architecture, our Talon radio enables easy reprogramming with different waveforms and operating modes through the latest digital signal processors. It's designed to easily accommodate a full range

of communications waveforms and ancillary equipment to meet your specific requirements. It provides multimode voice and data communications in normal, secure and/or jam-resistant modes over the VHF/UHF range (30-400 MHz).

### MODES OF OPERATION

- Normal single channel (30-400 MHz)
- Tactical VHF (30-88 MHz)
- Air traffic control (108-136 MHz)
- 25 kHz channel spacing
- 8.33 kHz European channel spacing (ED-23B compatible)
- Land mobile (136-156 MHz)
- Maritime (156-174 MHz)
- Military UHF (225-400 MHz)

### KEY FEATURES AND BENEFITS

- 250 normal preset channels
- 250 ECCM preset channels
- Channel scan (four preset channels)
- Two guard receiver frequencies: 121.5 MHz and 243 MHz
- Software reprogrammable
- Embedded FM immunity filter
- Upgrade available for manpack interoperability, including:
  - Quicklook 1A\* ECCM waveform
  - Citadel®\* encryption
  - Collins Embedded "Encryption A"
- Compatible with a variety of ancillary equipment:
  - Remote control units
  - High-power amplifiers
  - Data loaders
  - Mounts
  - Tunable filters/antennas

## OUTPUT POWER

- NLT 15 W/NMT 23 W FM
- NLT 10 W/NMT 15 W AM (carrier power)
- Half-power and programmable turn-down discretetes
- Programmable power turn-down tables

## INTERFACES

- RF ports
  - Single port (Tx/Rx)
  - ADF/dedicated Rx port
- Discrete I/O for flexible control/status
- Control bus for tunable antennas/filters
- External time standard input (GPS time)
- ICS (intercommunications system)
  - Programmable audio levels
- MIL-STD-1553B control interface
- RS-485 control interface (for remote control units)
- DS-101 single point fill interface
  - ECCM parameters
  - RT presets
- MIL-STD-1553B single point fill interface
  - ECCM parameters
  - RT presets
- RS-232 fill interface
  - ECCM parameters
  - RT presets
- DS-102 fill interface
  - HQ/SATURN WOD/MWOD
- RS-232 data port

## ECCM MODES OF OPERATION

- HAVE QUICK I/II
- SINGARS (V)
- SATURN
- Talon (country unique)

## SPECIFICATIONS

Power	+28 VDC
	154 W TX
	34 W RCV
Weight	12.2 lbs.
Width	5.0 in.
Height	5.6 in.
Length	9.8 in.
Test specifications	MIL-STD-461E
	MIL-STD-810E

## ANCILLARY EQUIPMENT

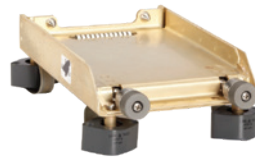
DL-8171 data loader



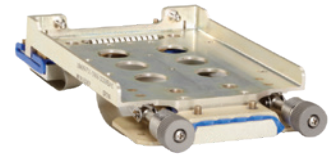
RCU-815X remote control unit



MT-4935 isolated mount



MT-6567 low profile mount



994M-4 mount



\*Enables interoperability with other radio systems using a compatible Citadel Cryptographic Encryption  
Citadel is a registered trademark of Harris Corporation

Specifications subject to change without notice.