AN/ARC-210 Talon Programmable Digital Communication System

RT-8100 — various configurations provide optimum multimode communications.

Rockwell Collins' Talon Radio family is available in several variants. All are software reprogrammable to accommodate a full range of communications waveforms to meet specific customer requirements. Talon provides multimode voice and data communications in normal, secure or jam-resistant modes.

SYSTEM FEATURES

- VHF/UHF (30-400 MHz)
  - Voice and data communications
- Multiple ECCM waveform option
  - SATURN (UHF)
  - Have Quick I/II (UHF)
  - TALON (VHF or UHF)
  - TALON CUID (country unique; VHF or UHF)
  - TALON II (VHF or UHF)
  - SINCGARS (VHF)
  - Quicklook 1A (VHF)*
- Multiple encryption options
  - Encryption A (AES-like encryption)
  - Citadel®* encryption
- Multiple fill ports
  - DS-101
  - DS-102
  - RS-232
  - MIL-STD-1553B
- Multiple data interfaces
  - MIL-STD-188-114A
  - RS-232
  - RS-422
- Multiple software control interfaces
  - MIL-STD-1553B
  - RS-422/RS-485
- Modular design for future hardware and software growth
- Software reprogrammable
- Compatible with a variety of ancillary equipment
  - Remote control units
  - High power amplifiers
  - Data loaders
  - Mounts
- Level 3 maintenance support
- Mission planning/PC software

MODES

- Normal single channel (30-400 MHz)
- Tactical VHF (30-88 MHz)
- VHF receive-only (108-118 MHz)
- Air traffic control (118-137 MHz)
  - 25 kHz channel spacing
  - 8.33 kHz European channel spacing (ED-23B compatible)
- Land mobile (137-156 MHz)
- Maritime (156-174 MHz)
- Military UHF (225-400 MHz)

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OUTPUT POWER

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

INTERFACES

- RF ports
  - Single port (Tx/Rx)
  - ADF or dedicated Rx port (for half-duplex)
- 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 fill
  - ECCM parameters
  - RT presets
- RS-232 fill interface
  - ECCM parameters
  - RT presets
- DS-102 fill interface
  - HQ/SATURN WOD/MWOD
- RS-232 data port
- MIL-STD-118-114/RS-422 data port

OTHER FEATURES

- 250 normal preset channels
- 250 ECCM preset channels
- Channel scan (4 preset channels)
- Two guard receiver frequencies
  - 121.5 MHz
  - 243 MHz
- Field programmable
- Embedded FM Immunity filter
- Optional encryption modes
  - Citadel Cryptographic Engine*
  - Country-unique (AES) encryption
  - Encryption A (AES-like)
  - Supports external KY-58 or KY-100 devices

SPECIFICATIONS

Power	+28 V dc
	154 watts
	34 watts
Weight	12.2 lbs
Width	5.0 in
Height	6.7 in
Length	11.4 in
Test specifications	MIL-STD-461E
	MIL-STD-810E

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

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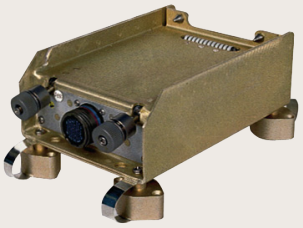
ANCILLARY EQUIPMENT

RCU-815X Remote Control

DL-8171 Data Fill Package
DS-101/DS-102/RS-232

AM-7526 UHF Power Amp

AM-7189A Low VHF Power Amp



994M-4A for Link 11 Operation

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

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