Product Specification

Description: The L3Harris AN/PRC-163 Multi-channel Handheld Radio is a versatile, secure solution that leverages crossbanding to provide simultaneous data and voice across SATCOM, line-of-sight and Mobile Ad-hoc Networking (MANET) modes. This is a requirement to ensure aircrew, ground crew, and support agencies can communicate with aircraft in flight.

The contractor shall provide the following:

1. Equipment.

    1.1. Eight (8) AN/PRC-163 Multi-channel Handheld Radios

    1.2. Eight (8) batteries for the radios, and eight (8) backup batteries for a total of 16 batteries

    1.3. Eight (8) charging stations, ports, and/or cords to charge the batteries

2. Specifications.

Frequency Ranges	**R/T 1:** VHF low: 30-88 MHz, VHF high: 118-174 MHz UHF: 225-512 MHz SATCOM: 300-320, MHz UL / 360-380 MHz DL UHF SATCOM: 291-318.3MHz UL /243-270 MHz
Channel Spacing/Bandwidth	R/T 1: 5 kHz-10 MHz
Net Presets	99 (standard); unlimited w/ multiple mission files
GPS	Built-in module—SAASM L1/L2 or Commercial L1
Management Tool	Windows®-based Communications Planning Application (CPA); JENM compatible
Frequency Tuning	10 Hz
Software Environment	SCA 2.2.2
Frequency Stability	0.5 ppm
Dimensions	6 H x 3 W x 2 D in (15.24 x 7.62 x 5.08 cm)
Volume (with battery)	40 in3(655.48 cm3)
Weight (with battery)	2.75 lbs (1.25 kg)
Color/Finish	CARC green
Temperature	Operating: -22°F to 131°F (-30°C to +55°C) Storage: -40°F to 185°F (-40°C to +85°C)
Immersion	20 Meters
Channel 1 Waveforms	VHF/UHF LOS, ANW2®C, SINCGARS, P25 (Conventional), **SATURN, HAVEQUICK I/II**
Channel 2 Waveforms	ANW2®C, UHF LOS, UHF SATCOM,
Voice Modes	Narrowband analog/PCM AM/FM, CVSD ASK/FSK cipher text, Wideband 2400 bps MELPe, LPC/2400-MELP – SATCOM (IW)
Data Modes	Narrowband analog/PCM AM/FM, CVSD ASK/FSK cipher text, Wideband up to 16 Mbps
Power Input	9.6 to 34.3 VDC
Battery Type	Rechargeable lithium-ion battery (included)

Encryption	Denali®-based Type 1 Suite A/B (Trust Anchor capable)
Power Output	250 mW to 5 W, 10 W SATCOM modes, 3.2 W L/S-band
Sensitivity	36.500 -52.000, -116 dBm, 12 dB SINAD 146.000 – 426.000, -114 dBm, 12 dB SINAD
Data Interface	USB 2.0, IP over USB, Ethernet
Audio Interface	19-pin ADF, 2-channel audio + KDU, USB 2.0, fill
Antenna Ports	50-ohm TNC
Programming	USB 2.0
Key Fill	DS-101
Function Knob	FP and 15 Presents Off/Load/Z/Volume/Mechanical Interlock
External Mission Module	Power, data, control/status

3. All shipping and handling charges must be included.

4. Delivery date: 60 days after receipt of order.

5. Delivery address: 401 Burgan Boulevard Bldg P-4, RM 178 Travis AFB, 94535

6. Point of Contact after contract is awarded: Coordinate with Maj Chandler Bishop (chandler.bishop.1@us.af.mil) and Lt Wyatt Witt (wyatt.witt.1@us.af.mil), Comm: 707-424-6300.