The L3Harris AN/PRC-163 (formerly known as RF-335M-STC) Multi-channel Handheld Radio is a versatile, secure solution that provides simultaneous up-and-down echelon connectivity, crossbanding capability, and critical interoperability and redundancy in a small form factor. Overlapping UHF and SATCOM band availability in both channels offers flexibility for any combination of SATCOM, VHF/UHF Line-Of-Sight or Mobile Ad-Hoc Networking (MANET) applications, including Signals-Based Threat Warning/Situational Awareness (SBTW/SA) and ISR video receiving.

The next-generation AN/PRC-163 has improved SWaP compared to existing single-channel radios. Built off of L3Harris’ Multi-channel Denali® security architecture, it features TSM-X™ MANET for high-speed networking and seamless updates to future waveforms. It provides secure network connections to computing devices, including Android™ smartphones. Plus, its expansion module interface secures L3Harris and third-party solutions that expand capabilities.

Using an ISR Video Module, the AN/PRC-163 delivers integrated tactical radio and video receiving capability with superior thermal performance, and easy-to-use crossbanding. The radio provides SBTW/SA features using advanced multi-node Time Difference of Arrival or single-node Angle of Arrival methods. It incorporates fully integrated MUOS-capable hardware, for true dismounted SATCOM on the move with only a single whip antenna.

The AN/PRC-163 incorporates a familiar yet enhanced user interface, providing critical status information at a glance, and allowing access to basic functions without removing the radio from its holster.

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### GENERAL

| **Frequency Range** | R/T 1 | VHF low: 30-88 MHz  
|                     |       | VHF high: 118-174 MHz  
|                     |       | UHF: 225-512 MHz  
|                     |       | MUOS(SATCOM): 300-320 MHz UL / 360-380 MHz DL  
|                     |       | UHF SATCOM: 291-318.3 MHz UL / 243-270 MHz DL  
|                     |       | SBTW / SA: 30-2600 MHz  
|                     | R/T 2 | UHF: 225-450 MHz  
|                     |       | L/S-band: 1300-2600 MHz  
| **Channel Spacing/Bandwidth** | R/T 1: 5 kHz-10 MHz  
|                     | R/T 2: 5 kHz-40 MHz  
| **Net Presets** | 99 (standard); unlimited with 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  

### TRANSMITTER

| **Power Output** | 250 mW to 5 W, 10 W SATCOM modes, 3.2 W L/S-band  
| **Spurious Suppression** | Per TIA-603D  

### RECEIVER

| **Sensitivity** | -116 dBm, 12 dB SINAD  
| **Adjacent Channel Rejection** | Per TIA-603D  

### POWER

| **Power Input** | 9.6 to 34.3 VDC  
| **Battery Types** | Rechargeable lithium-ion battery (included)  
|                   | Non-rechargeable A123 battery cell holder  
|                   | Approved tethered battery solutions  

### SECURITY

| **Encryption** | Denali®-based Type 1 Suite A/B  

### AVAILABLE MODES AND WAVEFORMS

| **Narrowband Waveforms** | FM/FSK, AM/ASK, SINCgars, HAVEQUICK I/II, P25  
| **Wideband Waveforms** | ANW2®C, SRW, TSM-X™  
| **UHF SATCOM Waveforms** | HPW, IW; future capability software upgrade: MUOS  
| **Voice** | Narrowband analog/PCM AM/FM  
|           | CVSD ASK/FSK cipher text  
|           | Wideband 2400 bps MELP  
|           | LPC/2400-MELP – SATCOM (IW)  
| **Data** | Narrowband analog/PCM AM/FM  
|           | CVSD ASK/FSK cipher text  
|           | Wideband up to 16 Mbps  

### PHYSICAL

| **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 (1.13 kg)  
| **Color/Finish** | CARC Green  

### ENVIRONMENTAL

| **Temperature** | Operating: -22°F to 140°F (-30°C to +55°C)  
|                 | Storage: -40°F to 185°F (-40°C to +85°C)  
| **Immersion** | 20 meters  

### INTERFACES

| **Data** | USB 2.0, IP over USB, Ethernet  
| **Audio** | 19-pin ADF, 2-channel audio + KDU, USB 2.0, fill  
| **Antenna Ports** | 50-ohm TNC  
| **Programming** | USB 2.0  
| **Key Fill** | D5-101  
| **Function Knob** | Preset switch: 16 Presets  
|               | Mode/volume switch: Volume control + Off, Load, Z with mechanical interlock  
| **External Mission Module** | Power, data, control/status  

### STANDARD KIT INCLUDES

| **AN/PRC-163** | Multi-channel Handheld Radio Transceiver  
| 12500-2500 | 7.0 Ah Li-Ion battery  
| 12102-2700-01 | 13 in. minoblade 30-870 MHz  
| 12193-2740-01 | Dual-band 225-450 & 1300-2600 MHz  

### OPTIONAL ACCESSORIES

| **12011-2730-01** | 45 in blade 30-512 MHz  
| **12193-2710-01** | Dismount Tether Antenna Mount  
| **12236-1000-01** | Power Adapter Interface (PAI)  
| **RF-5853-CH** | Battery Charger  
| **12193-0340-A001** | Cable, Key Fill/Audio Adapter  
| **12193-0460-A006** | Cable, USB High Speed Data  
| **12193-1000-01** | 2-Port USB Side Adapter  
| **12246-2000-01** | Ethernet Adapter  
| **12193-1590-01** | Holster  
| **12193-1595-01** | Carrying Bag  
| **12243-1000-01** | ISR Mission Module  
| **12193-2791-01** | Signals-Based Threat Warning LVPA Kit  

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L3Harris AN/PRC-163 Multi-channel Handheld Radio
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