

AN/PRC-163

Multi-channel Handheld Radio

The L3Harris AN/PRC-163 Multi-channel Handheld Radio is a versatile, secure solution that leverages crossbanding to provide simultaneous data & voice across SATCOM, Line-of-Sight and Mobile Ad-hoc Networking (MANET) modes.

As mission needs evolve, this software-defined handheld supports fast, in-field updates to new capabilities. An external mission module hardware interface allows warfighters to quickly add options including ISR video and SATCOM.

The AN/PRC-163 has improved SWaP compared to existing single-channel radios. Built off of L3Harris' Multi-channel Denali® security architecture, it features MANET waveforms 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 extend capabilities.

In addition to IW, SATCOM, MUOS Specialty Terminal and L-TAC™ (L-Band SATCOM), this allows the AN/PRC-163 to provide alternative modes for Beyond-Line-of-Sight, on-the-move communications.

Using an ISR Video Module, the AN/PRC-163 delivers simultaneous tactical communications and video capabilities allowing the user to crossband the video across multiple MANET waveforms.

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



**NSA
Certified**

CONVERGING OF VOICE, DATA AND PLI IN A SINGLE LOW-SWaP PLATFORM

KEY BENEFITS

- > High Assurance architecture allows Multiple Independent Levels of Security up to TOP SECRET
- > Shared COP and mission effectiveness advanced through simultaneous, fully redundant, dual-channel voice, data and video crossbanding
- > Multiple capabilities in a single, compact, dual-channel handheld reduces cost for dismount and vehicular missions
- > Upgrades to evolving tactical needs are simplified through hardware mission module and software-defined architecture
- > WebUI simplifies radio network management via Android™ and Windows® devices
- > High-speed tactical MANETs expand real-time networking intel

GENERAL	
Frequency Range	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: 291-318.3 MHz UL / 243-270 MHz DL R/T 2 UHF: 225-450 MHz, L/S-band: 1300-2600 MHz, L-Band Waveform Option File required for L-TAC™ capability
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

PHYSICAL	
Dimensions	6 H x 3 W x 2 D in (15.24 x 7.62 x 5.08 cm)
Volume (with battery)	40 in ³ (655.48 cm ³)
Weight (with battery)	2.75 lbs (1.25 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

CHANNEL 1 WAVEFORMS	
Standard Waveforms	VHF/UHF LOS, ANW2°C, SINGGARS, P25 (Conventional)
Optional Waveforms	SATURN, HPW, IW Phase 1/2, HAVEQUICK I/II, P25T Trunking (Low Band), SCM and e-BFT (DoD only)

CHANNEL 2 WAVEFORMS	
Standard Waveforms	ANW2°C, UHF LOS, UHF SATCOM
Optional Waveforms	TSM-X™, L-TAC®, Wraith™

MISSION MODULE	
KIV-335A (ISR) 12243-0100-01	Freq Range: L/S/C/KU Waveforms: BE-CDL, STD-CDL, TDL, 466ER, VNW, SUAS DDL, FM ANALOG

AVAILABLE MODES	
Voice and Data Modes	Voice: Narrowband analog/PCM AM/FM, CVSD ASK/FSK cipher text, Wideband 2400 bps MELPe, LPC/2400-MELP – SATCOM (IW) Data: Narrowband analog/PCM AM/FM, CVSD ASK/FSK cipher text, Wideband up to 16 Mbps

POWER	
Power Input	9.6 to 34.3 VDC
Battery Type	Rechargeable lithium-ion battery (included)

SECURITY	
Encryption	Denali®-based Type 1 Suite A/B (Trust Anchor capable)

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

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	DS-101
Function Knob	FP and 15 Presents Off/Load/Z/Volume/Mechanical Interlock
External Mission Module	Power, data, control/status

STANDARD KIT INCLUDES	
12102-2700-01	13 in. miniblade 30-870 MHz
12193-1000-xxxx	RT-2062(C)/U MIL GPS or RT-2062A (C)/U COMM GPS
12193-2740-01	Dual-band 225-450 & 1300-2600 MHz
12500-2500-02	7.0 Ah Li-Ion battery

OPTIONAL ACCESSORIES	
12011-2730-01	45 in blade 30-512 MHz
12193-0340-A001	Cable, Programming/Key Fill
12193-0460-A006	Cable, USB Interface, PDA-184
12193-0505-01	Tether Cable (Mission Module)
12193-0600-A1	Cable, 19-Pin to Dual Audio/EUD
12193-0752-A1	Cable, 12-Pin ODU to KVL RJ-45
12193-1590-01	Holster (with or without MM)
12193-2750-02	Antenna, GPS L1/L2 (Ceramic Core)
12241-1000-01	Red/Black Side Adapter
A30-1277-003	RF Amplifier, 50W, NGHH
E75-0321-101	Antenna, L-TAC® Dismount
E75-0321-002	Antenna, L-TAC® Vehicular
RF-5853-CH	Battery Charger

AN/PRC-163 Multi-channel Handheld Radio

© 2023 L3Harris Technologies, Inc. | 05/2023 DS607R

TrellisWare and TSM and TSM-X are registered trademarks of TrellisWare Technologies, Inc. in the United States and other countries.

Non-Export Controlled Information

L3Harris Technologies is a Trusted Disruptor for the global aerospace and defense industry. With customers' mission-critical needs always in mind, our 46,000 employees deliver end-to-end technology solutions connecting the space, air, land, sea and cyber domains.



1025 W. NASA Boulevard
Melbourne, FL 32919