AN/PRC-167

Multi-channel Manpack

The L3Harris AN/PRC-167 Multi-channel Manpack 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. As mission needs evolve, this software-defined manpack 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 Multi-channel Manpack provides an up-to-the-moment Common Operational Picture (COP) throughout the battlespace via advanced crossbanding and high-speed TSM-X™ MANET. In addition to legacy SATCOM support, the radio incorporates MUOS-capable communications hardware for true Beyond Line-Of-Sight communications on the move, with 3.2 in development and L-TACTM (L-Band SATCOM), providing alternative modes for Beyond Line-of-Site, on the move.

The AN/PRC-167 is equipped with software-defined L3Harris Denali® encryption, enhancing tactical interoperability by allowing dual-channel, independent security level combinations up to TOP SECRET. Friendly Force survivability and effectiveness are advanced through an internal SAASM GPS and Signals-Based Threat Warning technologies.

Designed for rapid deployment and ease of use, the compact AN/PRC-167 features the familiar Falcon® radio interface. WebUI enhances the seamless experience, supporting remote radio, network monitoring and management through a browser on any End User Device.

INDUSTRY-LEADING WAVEFORM PORTFOLIO AND INTEROPERABILITY

KEY BENEFITS

> Multiple capabilities in a single, compact, dual-channel manpack speeds deployment and reduces costs for dismount and vehicular missions

> High-speed tactical MANETs expand real-time networking

> Shared COP and mission effectiveness advanced through simultaneous, fully redundant, dual-channel voice, data and video crossbanding

> Upgrades to evolving tactical needs are simplified through hardware mission module and software-defined architecture

> High Assurances architecture allows Multiple Independent Levels of Security (MILS) up to TOP SECRET

> WebUI simplifies radio network management via Android™ and Windows® devices

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GENERAL

Nomenclature	AN/PRC-167
Frequency Range	**Both channels support the following range of frequencies:** 30-512 MHz 764-2600 MHz SBTW/SA RX only: 30-2600 MHz
Net Presets	99 (standard); unlimited with multiple mission files
Channel Spacing/Bandwidth	5 kHz-40 MHz
GPS	Built-in module—SAASM L1/L2
Management Tool	Windows®-based Communications Planning Application (CPA); JENM compatible WebUI for network monitoring and management
Frequency Tuning	10 Hz
Software Environment	SCA v2.2.2
Frequency Stability	0.5 ppm
Remote Control	HW: Remote Keypad Display Unit (RKDU) W: SNMP, ASCII, WebUI with WebKDU

TRANSMITTER

Power Output	250 mW up to 20 W, 20 W SATCOM modes
Spurious Suppression	> -53dBc
Harmonic and Spurious Suppression	> -53dBc

RECEIVER

Sensitivity	-116 dBm, 12 dB SINAD
Adjacent Channel Rejection	60 dBc
Squelch	CDCSS or CTCSS, tone, noise or none

POWER

Power Input	18 VDC to 35 VDC
Power Consumption	Up to 180 W (while powering audio accessory, EUD and ISR MM)
Battery Types	BB-2590/U for full radio capability Can use BA-5590/U and BA-5390/U

SECURITY

Encryption	Denali-based Type-1 Suite A and Suite B encryption (selections vary by waveform)

AVAILABLE MODES AND WAVEFORMS

Narrowband Waveforms	FM/FSK, AM/ASK, SINCGARS, HAVEQUICK I/II, ASCM, SATURN ED 4, P25 with Phase II Trunking
Wideband Waveforms	ANW2®C, WRAITH, TSM-X™, MIL-STD-188-181B
UHF SATCOM Waveforms	HPW, IW Phase I and II, L-TAC MUOS (future software upgrade)
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:** INE mode for external SATCOM Terminal Narrowband analog/PCM AM/FM CVSD ASK/FSK cipher text Wideband up to 16 Mbps, PSK, CPM, GMSK

PHYSICAL

Dimensions	3.50 H x 7.25 W x 14.31 D in (with battery) 8.89 H x 18.41 W x 36.34 D cm (with battery)
Volume	167 in³ (without battery) 275 in³ (with battery)
Weight	12.9 lbs (with battery) 5.85 kg
Color/Finish	CARC Green 383

ENVIRONMENTAL

Shock and Vibration	MIL-STD-810G
Temperature	Operating: -40°F to 140°F (-40°C to +60°C) Storage: -40°F to 185°F (-40°C to +85°C)
Immersion	2 meters salt water (MIL-STD-810G)
EMI/RFI	MIL-STD-461F
Sand/Dust/Salt/Fog/Rain	MIL-STD-810G

INTERFACES

Data	USB 2.0, IP over USB, Ethernet
Audio	19-pin ADF, 2-channel audio + KDU, USB 2.0, fill Support for 6-pin ADF
Antenna Ports	50-ohm TNC
Programming	USB 2.0
Key Fill	DS-101, USB
Function Knob	OFF, ON, LD, Z
External Mission Module	Power, audio data, control/status

See L3Harris Product Catalog for accessories

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