L3HARRIS FALCON® IV AN/PRC-158

Multi-channel Manpack (MCMP)

The L3Harris Falcon IV AN/PRC-158 delivers dual-channel connectivity across the full 30-2500 MHz frequency range. Compact and lightweight, the MCMP provides forward-deployed warfighters with an unrivaled level of tactical communications flexibility.

The MCMP includes MUOS-ready hardware for SATCOM connectivity while on the move. NSA-certified for voice and data up to U.S. TOP SECRET with L3Harris Sierra™ II encryption, the manpack is fully JTRS COMSEC and TRANSEC compliant. The AN/PRC-158 supports numerous legacy encryption and key fill modes as well as Type 3 AES keys.

The familiar Falcon user interface reduces training time and speeds tactical operations. An embedded SAASM GPS receiver enhances Situational Awareness through automatic position location reporting.

Equipped with a Software Communications Architecture (SCA) and a broad portfolio of narrowband and wideband waveforms, the AN/PRC-158 ensures advanced interoperability and fast in-field updates for new capabilities. The manpack’s two channels and superior routing and crossbanding technologies support communications redundancy and sharing critical voice and data ISR with a variety of nets and sub nets.

KEY BENEFITS

> Dual-channel simultaneous send and receive capabilities
> Future-proof with SCA architecture for fast, in-field updates
> MUOS-ready hardware for SATCOM on the move
> NSA-certified for voice and data up to U.S. TOP SECRET

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### GENERAL

| RT Nomenclature         | RT 2034A P C U (SAASM GPS)  
|                         | RT 2034 P C U (commercial GPS) |

#### Frequency Range

| Narrowband: | 30 MHz-2.5 GHz  
|            | VHF: 30-225 MHz  
|            | UHF: 225-520 MHz, 762-874 MHz |
| SATCOM:    | RX: 243-270 MHz  
|            | TX: 292-318 MHz  
| MUOS:      | RX: 360-380 MHz  
|            | TX: 300-320 MHz  

| Wideband: |
| L-BAND: 762 MHz-2.5 GHz |

#### Channel Spacing/Bandwidth

- **Narrowband**: 8.33 kHz, 12.5 kHz, 25 kHz, 5 MHz and 10 MHz
- **Wideband**: 1.2 MHz, 2.5 MHz, 5 MHz and 10 MHz

#### Net Presets

99 system presets per channel

#### Internal GPS

SAASM receiver (commercial GPS optional)

#### Management Tool

Communications Planning Application (CPA); JENM compatible

#### Frequency Tuning

10 Hz from 30-520 MHz  
100 Hz from 762 MHz-2.5 GHz

#### Software Environment

SCA v2.2.2

### TRANSMITTER

#### Power Output

- **Narrowband**: 10 W  
- **SATCOM**: 20 W  
- **Wideband**: 20 W peak/10 W average (max)

#### Antenna Outputs

Single 30-2500 MHz N-type connector per channel

#### Harmonic Suppression

> 53 dBc

#### Frequency Stability

0.5 ppm

#### Spurious Suppression

> 53 dBc

### RECEIVER

#### Sensitivity (for 10dB SINAD)

- **LOS FM 30-512 MHz**: -116 dBm  
- **LOS AM 90-512**: -103.5 dBm with 30% modulation

#### Adjacent Channel Rejection

> -40 dB

#### Squelch

Digital (CDCSS or CTCSS), tone, noise or none

### POWER

#### Power Input

19-34 VDC

#### Power Consumption

120 W max

#### Battery Types

BA-5590/U, BA-5390/U, BB-2590/U

### SECURITY

#### Encryption

Sierra™ II-based, Type 1 (Suite A/B)  
NSA Certified TOP SECRET and below

#### Encryption Modes

KY-57 (VINSON), KYV-5 (ANDVT), KG-84C, FASCINATOR, HAIPE (PPK, FFV), AES (Type 1 & 3), TSVCIS

#### Key Fill Device Compatibility

AN/CYZ-10 DTD, KOI-18, KYK-13, KYX-15, MX-18290, AN/PYQ-10, KIK-11, KIK-20

#### Key Storage

Up to 300 per channel

#### Modes

DS101, DS102, mode 2/3, USB

### MODES AND WAVEFORMS

#### Narrowband Waveforms

- AM/FM, VHF/UHF LOS, SINCgars, HAVEQUICK I/II, HPW (SATURN upgradeable)

#### Wideband Waveforms

- SRW, ANW2®C (TSM upgradeable)

#### UHF SATCOM Waveforms

- MIL-STD-188-188A dedicated channels  
- MIL-STD-188-182A, 183A DAMA  
- MIL-STD-188-181C, 183B IW Phase 1  
- HPW, MUOS

#### Voice and Data Modes

- Simplex or half duplex
- MIL-STD-188-113 CVSD STANAG 4198  
- LPC-3e STANAG 4591 MELPe  
- Full duplex capable

#### Transmission Modes

- AM, ASK, FM, FSK, PSK, CPM, GMSK

### PHYSICAL

#### Dimensions (no handles)

- 3.50 H x 7.36 W x 9.51 D in (without battery)  
- 3.50 H x 7.36 W x 14.25 D in (with battery)

#### Volume

181 in³ (without battery) 264 in³ (with battery)

#### Weight

- 8.9 lbs (without battery) 12.7 lbs (with battery)

#### Color

CARC green 383

### ENVIRONMENTAL

#### Shock/Vibration

MIL-STD-810G for tracked and wheeled vehicles, ADTP-2404D ballistic shock

#### Immersion

2 meter salt water (MIL-STD-810G)

#### Temperature

- Operating: -40°F to 131°F (-40°C to +55°C)  
- Storage: -40°F to 160°F (-40°C to +71°C)

#### EMI/RFI

MIL-STD-461F

#### Sand/Dust/Salt/Fog/Rain

MIL-STD-810G

### INTERFACES

#### External Data

USB, USB RNDIS host and device, Ethernet, RS-232

#### Audio

Standard 6 pin per channel

#### Antenna Port

Single N-type connector per channel

#### Programming

Communications Planning Application (CPA); JENM compatible

#### Function Knob

OFF, ON, LD, Z

#### Remote Control

USB, RS-232, Remote Keypad Display Unit (RKDU), Software Keypad Display Unit, SNMP