

FALCON III® AN/PRC-152A

Type 1 Wideband Networking Handheld Radio

The L3Harris Falcon III AN/PRC-152A delivers simultaneous voice and high-speed data, seamlessly connecting dismount and upper-echelon networks. This handheld solution employs next-generation wideband waveforms — Soldier Radio Waveform and L3Harris' Adaptive Networking Wideband Waveform (ANW2®C) — for reliable and secure mobile ad-hoc networking. Even in challenging environments, the AN/PRC-152A provides voice, data, imagery and video, giving warfighters critical mission intelligence for enhanced decision-making.

This L3Harris Type 1 Wideband Networking Handheld Radio features a complete set of narrowband Line-Of-Sight (LOS) and UHF SATCOM capabilities, ensuring interoperability with wideband, legacy and public safety systems. Additionally, both voice and data communications are NSA-certified secure up to TOP SECRET through the embedded L3Harris Sierra II encryption module.

The AN/PRC-152A provides multiband frequency coverage and up to 5 W of transmit power for Line-of-Sight narrowband waveforms, including SINCGARS, HAVEQUICK I/II and AM/FM VULOS. It also provides a 10 W burst mode for legacy SATCOM. Its standard highband enhancement extends frequency coverage to 520 MHz and adds the 762-870 MHz band for APCO P25 conventional and trunking interoperability.



SECURE, ON-THE-MOVE NETWORKING WITH MULTI-MISSION CAPABILITIES

KEY BENEFITS

- > Multi-mission capable with wideband on-the-move networking, SATCOM and legacy narrowband interoperability
- > L3Harris Sierra™ II software-programmable encryption
- > NSA-certified up to TOP SECRET
- > Software-upgradable with SCA v2.2.2 compliance (no waivers)
- > Seamlessly connects dismounted users to upper-echelon tactical networks

GENERAL	
RT Nomenclature	RT-1916x(P)(C)/U
Frequency Range	30-520 MHz, 762-870 MHz Narrowband: VHF 30-225 MHz, UHF 225-512 MHz Legacy SATCOM: RX 243-270 MHz, TX 291-318 MHz Highband (VULOS/P25): 512-520 & 762-870 MHz Wideband: 225-450 MHz
Channel Spacing/ Bandwidth	Narrowband: 8.33, 12.5, 25 kHz-AM, 12.5, 25 kHz-FM SATCOM: 5 kHz, 25 kHz Wideband: 500 kHz, 1.2 MHz FM deviation: 5 kHz, 6.5 kHz, 8 kHz
Net Presets	99 fully programmable system presets
Internal GPS	Optional internal commercial Jupiter JF2 GPS
Management Tool	Windows® Communications Planning Application JENM compatible
Frequency Tuning	Front panel: 100 Hz ASCII remote: 1 Hz Highband: 5 kHz ANW2 C: 5 kHz
Software Environment	SCA v2.2.2 (JTEL certified)
Frequency Stability	1x10-6 (drift ±0.5 ppm over one year)

TRANSMITTER	
Power Output	User programmable 250 mW to 5 W 10 W SATCOM burst mode
Harmonic Suppression	40 dB

RECEIVER	
Sensitivity	LOS FM: 30-152 MHz; -116 dBm @ 12 dB SINAD LOS AM: 90-512 MHz; -103.5 dBm @ 10 dB SINAD with 30% modulation TACSAT FM: 243-270 MHz; -120 dBm @ 10 dB SINAD
Adjacent Channel Rejection	≥ -40 dB
Squelch	Selectable tone, noise, digital (CDCSS, CTCSS), none

POWER	
Power Input	9.6 to 14 VDC
Power Consumption	≤ 4.0 amps at 10.8 VDC (≤ 43 W at 10.8 VDC)

SECURITY	
Encryption	Sierra II-based, Type 1 encryption (suite A/B), NSA-certified TOP SECRET and below
Encryption Modes	KY-57 (VINSON), KYV-5 (ANDVT), KG-84C, FASCINATOR, TSVICIS, VULOS, HAIPE (PPK/ FFV), AES (Type 1 & 3), Type 3 DES
Key Fill Device Compatibility	AN/CYZ-10 DTD, KOI-18, KYK-13, KYX-15, MX-18290 AN/PYQ-10 (SKL), KIK-11 (TKL), KIK-20, KVL-3000/4000
Key Storage	Up to 300
Modes	DS101, DS102, MODE 2/3, USB

MODES AND WAVEFORMS	
Narrowband Waveforms	AM/FM, VULOS, SINCGARS & HAVEQUICK I/II (standard), HPW, HPW IP, APCO P25 Phase 1 trunking, conventional and OTAR (optional)
Wideband Waveforms	ANW2C (standard),
UHF SATCOM Waveforms	MIL-STD-188-181B dedicated channel (standard) MIL-STD-188-182A, 183A DAMA (optional) MIL-STD-188-181C, 183B IW Phase 1 (optional) High Performance Waveform (HPW) & HPW IP (optional) SATCOM TDMA Capability (STC) waveform (optional)
Voice and Data Modes	Simplex or half-duplex and plain text analog voice SINCGARS ECCM (30.0-87.975 MHz) HAVEQUICK ECCM (225.0-399.975 MHz) Wideband CT digital voice (16 kbps; CVSD; KY-57) Narrowband CT digital voice (2.4 kbps; LPC-10, ANDVT) MELP for adaptive networking Wideband Waveform (ANW2C)
Transmission Modes	AM, ASK, FM, FSK, PSK, CPM, GMSK

PHYSICAL	
Dimensions (with battery)	Non-GPS: 9.6 H x 3.0 W x 1.9 D in (24.5 H x 7.6 W x 4.8 D cm) With GPS: 10.25 H x 3.0 W x 2.5 D in (26.5 H x 7.6 W x 6.4 D cm)
Volume (with whip antenna and battery)	Non-GPS models: 40 in³ (655.5 cm³) GPS models: 42 in³ (688.3 cm³)
Weight (with battery and antenna)	Non-GPS models: 2.5 lbs. max (1.1 kg) GPS models: 2.7 lbs. max (1.2 kg)
Color/Finish	CARC Green per FED-STD-595B (optional black)

ENVIRONMENTAL	
Shock and Vibration	MIL-STD-810G for tracked vehicles, wheeled vehicles and shipboard
Immersion	Standard unit: 6.6 ft (2.0 m) of water for 30 minutes 20-meter version: 66 ft (20 m)
Temperature	Operating: -22.0°F to +140°F (-30°C to +60°C) Storage: -22.0°F to +158°F (-30°C to +70°C)
Sand/Dust/Salt/Fog/Rain	MIL-STD-810F

INTERFACES	
External Data	USB, USB RNDIS host and device, Ethernet, RS-232, EEM
Audio	Standard 6-pin ADF
Antenna Port	50 ohm TNC (female)
Programming	USB
Function Knob	Off, 1-5 presets, scan, front panel, Z-All, PT, LD & CT
Remote Control	USB, RS-232, Remote Keypad Display Unit, Software Keypad Display Unit

See Product Catalog for accessories.

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