HARRIS FALCON III® AN/PRC-152A

TYPE 1 WIDEBAND NETWORKING HANDHELD RADIO

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

Harris Sierra™ II software-programmable encryption

NSA-certified up to TOP SECRET

Software-upgradable with SCA v2.2.2 compliance (no waivers)

JTNC certified SRW

The Harris 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 Harris 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 Harris Type 1 Wideband Networking Handheld features a complete set of narrowband line-of-sight and UHF SATCOM capabilities, ensuring interoperability with wideband, legacy and public safety systems. Plus, voice and data are NSA-certified secure up to TOP SECRET through the embedded Harris Sierra II encryption module.

The AN/PRC-152A covers the multiband frequency range, with 5 W transmit power for line-of-sight narrowband waveforms including SINCGARS, HAVEQUICK I/II, and AM/FM VULOS, and a 10 W burst for legacy SATCOM. Its standard highband enhancement increases frequency coverage to 520 MHz, and adds the 762-870 MHz band for APCO P25 conventional and trunking interoperability.

HARRIS® TECHNOLOGY TO CONNECT, INFORM AND PROTECT™

SPECIFICATIONS FOR: **HARRIS FALCON III® AN/PRC–152A TYPE 1 WIDEBAND NETWORKING HANDHELD RADIO**

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	1×10^{-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, TSVCIS, VULOS, HPW, 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), SRW (optional)
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.

About Harris Corporation

Harris Corporation is a leading technology innovator, solving customers' toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers around the world.

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