



# P5300 PORTABLE 900 MHz

## HIGH PERFORMANCE IN A DURABLE PACKAGE

The P5300 portable provides digital voice and Internet Protocol (IP) data for efficient and reliable communications. The radio uses a high-speed digital signal processor and the latest RF components to support multiple applications: OpenSky® digital TDMA trunking, Enhanced Digital Access Communications System (EDACS®) trunking, and complete analog conventional features.

### FEATURES

The portable provides reliable access to the sophisticated data capabilities of Harris' OpenSky trunked wireless voice and data network.

The Radio TextLink option improves real-time communications among first responders while also providing the capability to leave messages with users that are actively engaged in other critical activities.

The sturdy mechanical package of the P5300 provides high performance and reliable service. The radio meets MIL-STD-810F for durability, including a 1-meter drop per TIA, and IP65 for dust-tight and water jets.

### ADVANCED OPENSky FEATURES

The P5300 supports the full range of OpenSky digital trunking features, including voice group calls, priority scanning, pre-emptive emergency calls, late call entry, and dynamic reconfiguration. High-quality voice coding and robust audio components assure speech clarity even in noisy environments. The radio can be used in high-performance wireless data systems. For mobile data applications, the P5300 serves as an IP network node, providing end-to-end IP connectivity for an external portable computer connected to the radio's data port. Standard operating features include a 9.6-kbps data airlink rate. Users can talk and send or receive data on the same channel at the same time with just one radio.

### CAPABLE EDACS FEATURE SET

With its software-based design, the P5300 is readily configurable and easily expandable with software upgrades to meet customized needs.

- Stores up to 1,024 trunked system/group combinations and 128 conventional channels
- ProFile™ offers easy over-the-air programming for efficient updates
- ProScan™ provides smooth, automatic roaming between sites
- Capable conventional feature set

### RADIO TEXTLINK TEXT MESSAGES

With this option, users may receive, display, and respond to text messages sent from authorized users on the EDACS network.

## GENERAL SPECIFICATIONS

### Radio Models:

**P5370:** System Model with LCD and DTMF keypad

**P5350:** Scan Model with LCD and limited keypad

### Dimensions (H x W x D):

(Without Knobs and Antenna)

With Battery:

5.37 x 2.44 x 1.67 in.

(136.5 x 62.0 x 42.5 mm)

### Weight (With Battery):

Li-Ion: 13.70 oz (388g)

Li-Polymer: 15.20 oz (431g)

NiMH: 18.10 oz (513g)

### Battery Life (at 5% Tx, 5% Rx, and 90% standby):

Li-Ion: 9 hours (2000 mAh)

Li-Polymer: 16 hours (3600 mAh)

NiMH: 11 hours (2400 mAh)

### Operating Temperature Range:

Li-Ion: +14 to +140°F (-10 to +60°C)

Li-Polymer: -4 to 140°F (-20 to +60°C)

NiMH: -4 to 140°F (-20 to +60°C)

### Relative Humidity:

90% @ 122°F (+50°C)

### Altitude:

Operational: 15,000 ft (4,572 m)

In Transit: 50,000 ft (15,240 m)

### Hazardous Location Option:

As of May 23, 2016, P5300 FM approved radios manufactured by Harris shall be re-classified to Nonincendive Class I, Division 2, Groups A, B, C, and D.

### RoHS Compliant



### About Harris Corporation

Harris Corporation is a leading technology innovator that creates mission-critical solutions that connect, inform and protect the world. The company's advanced technology provides information and insight to customers operating in demanding environments from ocean to orbit and everywhere in between. Harris has approximately \$8 billion in annual revenue and supports customers in 125 countries through four customer-focused business segments: Communication Systems, Space and Intelligence Systems, Electronic Systems, and Critical Networks.

## TRANSMITTER

Typical performance specifications	900
Frequency Range (MHz):	896-902, 935-941
Rated RF Power Trunked (W):	0.5-3.0 (896-902 MHz) 0.5-2.5 (935-941 MHz)
Rated RF Power Talkaround (W):	0-2.5
Frequency Stability (-30 to +60°C; +25°C Ref) (ppm):	±1.5
Frequency Separation (MHz):	6 (full bandwidth)
Modulation Deviation (kHz):	2.5 FM, 2.0 OpenSky Trunking
FM Hum and Noise (Companion Receiver) (dB):	-40
Spurious and Harmonics (dBm/dBc):	-38/73
Audio Response (dB):	+1/-3
Audio Distortion:	1.5% (1 kHz tone @ 1.5 kHz deviation)

## RECEIVER

Typical performance specifications	900
Frequency Range (MHz):	935-941
Frequency Separation (MHz):	6 (full bandwidth)
Channel Spacing (kHz):	12.5
Frequency Stability (-30 to +60°C; +25°C Ref) (ppm):	±1.5
Sensitivity (12 dB SINAD) (µV/dBm):	0.19/-121.5
Adjacent Channel Rejection (dB):	67 @ 12.5 kHz
Intermodulation (dB):	73
Spurious and Image Rejection (dB):	85
Rated Audio Output (mW):	500
Audio Distortion:	1.5% @ rated power

## ENVIRONMENTAL SPECIFICATIONS

Standard	Parameter	Methods & Procedures
MIL-STD-810F*	Low Pressure	500.4/1,2
	High Temperature	501.4/1,2
	Low Temperature	502.4/1,2
	Temperature Shock	503.4/1
	Solar Radiation	505.4/2
	Blowing Rain	506.4/1
	Humidity	507.4
	Salt Fog	509.4
	Blowing Dust	510.4/1
	Vibration (Minimum Integrity)	514.5/1, Category 24
	Vibration (Basic Transportation)	514.5/1, Category 4
	Shock (Functional/Basic)	516.5/1
	Shock (Transit Drop)	516.5/4
	IEC 60529	Dust-tight, Water Jets
U.S. Forest Service	Vibration (10-60 Hz)	USDA LMR Std, Sec 2.15
TIA-603-B	Shock (1-meter drop)	Paragraph 3.3.5.3

\*Also meets equivalent superseded MIL-STD-810C, -D, and -E.

## DIGITAL OPERATION

Protocol	OpenSky
Vocoding Method:	AMBE+2™ Half Rate & Enhanced Half Rate
Signaling Rate (kbps):	9.6
Modulation:	4-level GFSK & M4FM

## REGULATORY DATA

Frequency Range (MHz)	RF Output (W)	FCC Type Acceptance Number	Applicable FCC Rules	Industry Canada Certification Number	Applicable Industry Canada Rules
896-940	3	OWDTR-0047-E	90	3636B-0047	RSS-119

Technical specifications are subject to change without notice. Product sales are subject to applicable U.S. export control laws.

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