

Hytera

20th
1993-2013





PD70X LT

Cost-effective
Digital Portable
Two-way Radio

As a product built to the DMR standard, PD70X LT is endowed with ergonomic design, all-round digital functions and remarkable quality to refresh your experience and enable you to be responsive to emergent situations.

Applications

Hotel

Property management

Security

Manufacturing

Warehousing



Product Features

- **Ergonomic Design**
The globally patented industrial design and antenna design ensure convenient operation and remarkable UHF performance.
- **Reliable Quality**
PD70X LT is strictly compliant with MIL-STD-810 C/D/E/F/G and IP67 standards, ensuring outstanding performance even in harsh environments.
- **Superior Voice**
With the combined application of narrowband codec and digital error-correction technologies, PD70X LT is capable of ensuring you superior voice in noisy environments or at the edge of the coverage area. In addition, the adoption of the AGC technology also optimizes your voice. With a built-in 1W speaker, PD70X LT ensures clear and crisp voice communication.
- **Durable Battery**
Compared with an analog radio, PD70X LT can obtain an extra 40% operation time.
- **Higher Spectrum Efficiency, Higher Channel Capacity**
Benefiting from the TDMA technology, PD70X LT allows twice the channels based on the same spectrum resource. This is a big help to relieve the stress of increasing shortage in spectrum resource.
- **Dual-slot Pseudo Trunk**
With this feature, the free slot can be allocated to a member that needs to communicate, effectively enhancing frequency efficiency and allowing you to communicate timely under emergency situations.

Main Functions

- **Dual Modes (Analog+Digital)**
PD70X LT can operate in either analog or digital mode. It is compatible with the prevalent analog system, ensuring a smooth analog-to-digital transition.
- **Versatile Voice Calls**
Intelligent signaling of PD70X LT supports various voice call types, including Private Call, Group Call, All Call and Emergency Call.
- **Various Analog Signaling Types**
PD70X LT supports various analog signaling types (HDC1200, DTMF*, 2-Tone and 5-Tone), various squelch control types (CTCSS /CDCSS), thus providing higher function expansion capacity to the analog world.
- **One Touch**
PD70X LT supports One Touch features that comprise of Text Message, Voice Calls and Supplementary Services.
- **Scan**
PD70X LT supports scanning of pure Analog voice and signaling, pure Digital voice and data, and also mix mode scan that comprise of Analog and Digital activities.

* indicates functions available in later version.

Standard Accessories

Li-ion battery
Leather strap

MCU rapid-rate charger
Belt clip

Power adapter
Antenna

Specifications

General	Frequencies	UHF1: 400-470MHz; UHF2: 450-520MHz VHF: 136-174MHz	
	Channel Capacity	32	
	Zone Capacity	3 (each with a maximum of 16 channels)	
	Channel Spacing	12.5KHz / 20KHz / 25KHz	
	Operating Voltage	7.4V (rated)	
	Battery	2000mAh (Li-Ion)	
	Battery Life (5-5-90 Duty Cycle, High TX Power) High-capacity 2000mAh Li-Ion Battery	Analog: UHF1: 13.5h 12h (G) UHF2: 12.5h 11h (G) VHF: 11h 10h (G)	Digital: UHF1: 15.5h 14h (G) UHF2: 14.5h 12.5h (G) VHF: 13.5h 12h (G)
	Frequency Stability	± 1.5ppm	
	Antenna Impedance	50Ω	
	Dimensions (H× W× D) (with standard battery, without antenna)	125 X 55 X 35mm	
Weight (with antenna & standard battery)	335g		
Receiver	Sensitivity	Analog	0.3μ V (12dB SINAD); 0.22μ V (Typical) (12dB SINAD) 0.4μ V (20dB SINAD)
		Digital	0.3μ V /BER5%
	Selectivity TIA-603 ETSI	60dB @ 12.5KHz / 70dB @ 20/25KHz 60dB @ 12.5KHz / 70dB @ 20/25KHz	
	Intermodulation TIA-603 ETSI	70dB @ 12.5/20/25KHz 65dB @ 12.5/20/25KHz	
	Spurious Response Rejection TIA-603 ETSI	70dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz	
	Blocking TIA-603 ETSI	80dB 84dB	
	Hum and Noise	40dB @ 12.5KHz; 43dB @ 20KHz; 45dB @ 25KHz	
	Rated Audio Power Output	0.5W	
	Rated Audio Distortion	≤ 3%	
	Audio Response	+1 ~ -3dB	
	Conducted Spurious Emission	< -57dBm	

Transmitter	RF Power Output	UHF1/UHF2 High Power : 4W UHF1/UHF2 Low Power : 1W VHF High Power : 5W; VHF Low Power : 1W
	FM Modulation	11K0F3E @ 12.5KHz; 14K0F3E @ 20KHz 16K0F3E @ 25KHz
	4FSK Digital Modulation	12.5KHz Data Only: 7K60FXD 12.5KHz Data & Voice: 7K60FXW
	Conducted/Radiated Emission	-36dBm<1GHz; -30dBm>1GHz
	Modulation Limiting	± 2.5KHz @ 12.5KHz; ± 4.0KHz @ 20KHz; ± 5.0KHz @ 25KHz
	FM Hum & Noise	40dB @ 12.5KHz; 43dB @ 20KHz; 45dB @ 25KHz
	Adjacent Channel Power	60dB @ 12.5KHz; 70dB @ 20/25KHz
	Audio Response	+1 ~ -3dB
	Audio Distortion	≤ 3%
	Digital Vocoder Type	AMBE++or SELP
Digital Protocol	ETSI-TS102 361-1,-2,-3	
Environmental Specifications	Operating Temperature	-30°C ~ +60°C
	Storage Temperature	-40°C ~ +85°C
	ESD	IEC 61000-4-2 (level 4) ± 8kV (contact) ± 15kV (air)
	American Military Standard	MIL-STD-810 C/D/E/F/G
	Dust & Water Intrusion	IP67 Standard
	Humidity	Per MIL-STD-810 C/D/E/F/G Standard
	Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

Apex Radio Systems Ltd.
102 Tantobie Road
Denton Burn
Newcastle upon Tyne
NE15 7DQ



Tel 0191 228 0466
Fax 0191 228 0467
Email info@apexradio.com

Optional Accessories

Remote Speaker Microphone (IP57) SM18N2	C-Earset EHN16	Swivel Earset EHN17	Earbud ESN12	3-Wire Surveillance Earpiece with Transparent Acoustic Tube (beige) EAN17	Six-Unit Switching Power PS7002	Carrying Case (for thick battery) (leather) (swivel) LCY003	Programming Cable (USB Port) PC38	2500mAh Li-Ion Battery BL2503
Battery Optimizing System MCA05	MCU Multi-unit Charger (for Thick Battery) MCA08	3-wire Surveillance Earpiece with Transparent Acoustic Tube (Black) EAN18	Receive-only Earpiece ESS07	Receive-only Earpiece ESS08	2-wire Earpiece with Wireless Earphone and Neck Loop (Beige) EWN06			

Pictures above are for reference only and may vary from actual products.



Hytera Communications Corporation Limited

Address: Hytera Tower, Hi-Tech Industrial Park North, Beihuan Rd.,
Nanshan District, Shenzhen, China
Tel: +86-755-2697 2999 Fax: +86-755-8613 7139 Post: 518057
Http: //www.hytera.com Stock Code: 002583.SZ

Hytera retains right to change the product design and specification. Should any printing mistake occur, Hytera doesn't bear relevant responsibility. Little difference between real product and product indicated by printing materials will occur by printing reason.

HYT, Hytera are registered trademarks of Hytera Communications Co., Ltd.
© 2013 Hytera Communications Co., Ltd. All Rights Reserved.