

Digital Migration Radio PD50X

DMR standard radio, light design,

Clear voice, cost effective.

New Software! TDMA Direct Mode removed——high quality as always!

www.hytera.com

Features

Small, Sleek, Light The size is 115 X 54 X 27mm, dual-color injection, weight is 260g.

Long Battery Life

In digital mode, PD50X operates a minimum of 14 hours under a

duty cycle of 5-5-90.

Rugged & Reliable

PD50X complies with MIL-STD-810 C/D/E/F/G and IP54.

One Touch Call/Text

PD50X supports One Touch Call/Text features to transmit call

or text message via the programmed key.

Supplementary Features (optional)

PD50X supports radio enable, radio disable, remote monitor,

alert call and radio check.

Dual Modes (Analog & Digital)

In Smart Dispatch system or Smart XPT Dispatch system,

RRS is used to check if the radio is online.



Secure Communication

PD50X supports basic encryption in digital mode and scrambler

feature in analog mode.

Advanced Signaling

PD50X can transmit various analog signals, including HDC1200,

2-tone and 5-tone, for better communication with analog users.

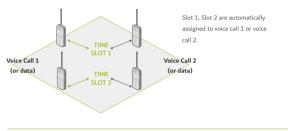
DMRA Data Service

The data protocol is fully compliant to DMRA standard.

Pseudo Trunk

The free slot can be allocated to enhance frequency efficiency

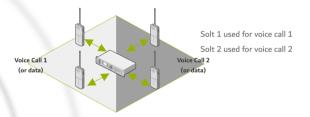
and timely response under emergency.



Dual Capacity in TMO

PD50X can work in Hytera XPT Trunking system, which is cost-effective and can dynamically assign voice

and data services.

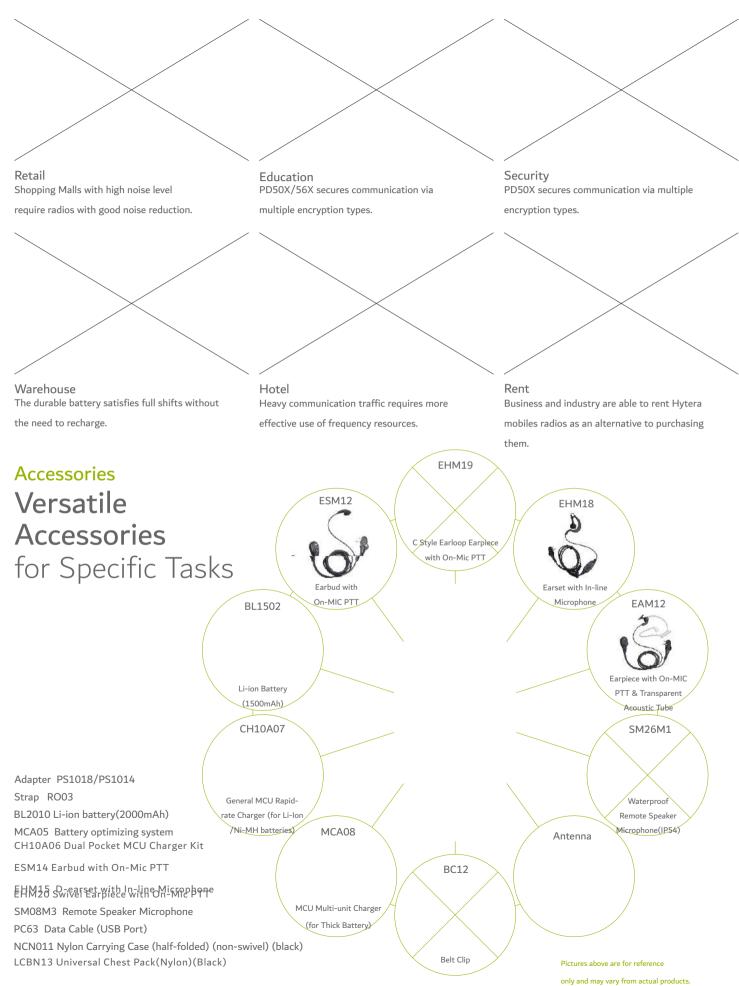


Highlights

- Ergonomic User-Friendly Design
- Light & Durable
- Compact Size & Clear Voice

Affordable

Target Markets



Specifications

	General
Frequency Range	UHF: 350-400MHz,400-470MHz
	VHF: 136-174MHz
Channel Capacity	256
Zone Capacity	16
Channel Spacing	25/20/12.5KHz
Operating Voltage	7.4V
Battery	1500mAh (Li-Ion)
Battery Life (5/5/90)	Analog/Digital:
	11.5/16 hours(1500mAh)
	15.3/20 hours(2000mAh)
Weight	260g
Dimensions	115 x 54 x 27mm
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
	Receiver
Sensitivity (Digital)	0.22µV / BER 5%
Sensitivity (Analog)	0.3μV (12dB SIN AD) 0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD)
Adjacent Selectivity TIA-603 ETSI	60dB @ 12.5KHz/70dB @ 20 & 25KHz 60dB @ 12.5KHz/70dB @ 20 & 25KHz
Spurious Response Rejection TIA-603 ETSI	70dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz
Inter-modulation TIA-603 ETSI	70dB @ 12.5/20/25KHz 65dB @ 12.5/20/25KHz
Hum & 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	
gh power: 5W w power: 1W igh power: 4W w power: 1W	
3E @ 12.5KHz 3E @ 20KHz 3E @ 25KHz	
lz Data Only: 7K60FXD Iz Data & Voice: 7K60FXW	
n ≤1GHz, -30dBm >1GHz	
Hz @ 12.5KHz Iz @ 20KHz Iz @ 25KHz	
9 12.5KHz 9 20KHz 9 25KHz	
0 12.5KHz, 70dB @ 20/25KHz	
dB	
2 [™] or SELP	
5102 361-1,-2,-3	
Environmental	
+60℃	
+85℃	
000-4-2 (Level 4) Contact) (Air)	
·····	
STD-810 G	

All specifications are subject to change without notice due to continuous development.

PD50X, X=0, 2, 5,6 or 8, model number varies geographically. For details, please contact our regional sales representatives.





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



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