



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

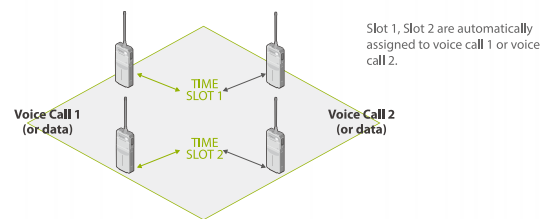
PD50X can transmit various analog signals, including HDC1200, 2-tone and 5-tone, for better communication with analog users.

DMRA Data Service

The data protocol is fully compliant to DMRA standard.

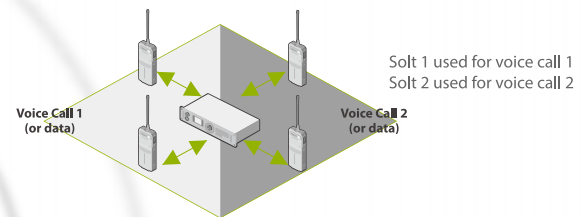
Pseudo Trunk

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



Retail

Shopping Malls with high noise level require radios with good noise reduction.



Education

PD50X/56X secures communication via multiple encryption types.



Security

PD50X secures communication via multiple encryption types.



Warehouse

The durable battery satisfies full shifts without the need to recharge.



Hotel

Heavy communication traffic requires more effective use of frequency resources.



Rent

Business and industry are able to rent Hytera mobiles radios as an alternative to purchasing them.

Accessories

Versatile Accessories for Specific Tasks

Adapter PS1018/PS1014

Strap RO03

BL2010 Li-ion battery(2000mAh)

MCA05 Battery optimizing system

CH10A06 Dual Pocket MCU Charger Kit

ESM14 Earbud with On-Mic PTT

EHM15 D-earset with In-line Microphone

EHM20 Swivel Earpiece with On-Mic PTT

SM08M3 Remote Speaker Microphone

PC63 Data Cable (USB Port)

NCN011 Nylon Carrying Case (half-folded) (non-swivel) (black)

LCBN13 Universal Chest Pack(Nylon)(Black)



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

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	
RF Power Output	VHF High power: 5W VHF Low power: 1W UHF High power: 4W UHF 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+2™ or SELP
Digital Protocol	ETSI-TS102 361-1,-2,-3
Environmental	
Operating Temperature	-30°C~ +60°C
Storage Temperature	-40°C~ +85°C
ESD	IEC 61000-4-2 (Level 4) ±8kV (Contact) ±15kV (Air)
Dustproof & Waterproof	IP54
Humidity	Per MIL-STD-810 G
Shock & Vibration	Per MIL-STD-810 G
SAR	
Maximun SAR value(10g) 10.0W/kg Limit	
Head	1.602W/kg
Body	2.2584W/kg

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.



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