



Digital Migration Radio PD50X

DMR standard radio, light design, 2 timeslots in DMO, cost effective.





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 at least 16 hours under a duty cycle of 5-5-90.

Rugged & Reliable

It is compliant with MIL-STD-810 C/D/E/F/G standards.

One Touch Call/Text

Supports One Touch features that comprise of Preprogrammed Text Messages, Voice Calls and Supplementary Features.

Supplementary Features (optional)

PD50X can decode radio enable, radio disable, and remote monitor, as well as Priority Interrupt.

Dual Mode (Analog & Digital)

Dual modes (analog & digital) operation ensures a smooth analog to digital migration.



Secure Communication

Provides basic digital encryption and Scrambler feature in analog

Advanced Signaling

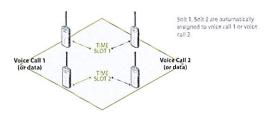
Supports multiple advanced analog signaling modes, including HDC1200, 2-Tone and 5-Tone, providing better integration into existing analog radio fleets.

DMRA Data Service

The data protocol is fully compliant to DMRA standard.

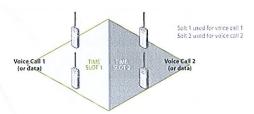
Pseudo Trunk

This virtual trunking feature allocates a free timeslot for urgent communications. This effectively enhances frequency efficiency and allows you to communicate in a timely manner in emergency situations.



DMO True 2-Slot

In DMO Hytera can provide 2-slot communication, which allows for 2 talk paths on 1 frequency.



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 has compact size for easy use that is capable of reaching long communication distance of a school or university campus.



Security
Enriched with several encryption types PD50X will make your communication more private.



Warehouse A durable battery allows for full shifts without the need to recharge.



Hotel
Heavy communication traffic require more
effective use of frequency resources.



Rent
The rent function is necessary for rent industry.



Specifications

| | General |
|--|---|
| requency Range | UHF: 400-470MHz, VHF: 136-174MHz |
| Channel Capacity | 32 |
| Zone Capacity | 3 |
| Channel Spacing | 25/20/12.5KHz |
| Operating Voltage | 7.4V |
| Battery | 1500mAh (Li-Ion) |
| Battery Life (5/5/90) | Analog: about 11 Hours Digital: about 16 Hours |
| Weight | 260g |
| Dimensions | 115 x 54 x 27mm |
| Frequency Stability | ±0.5ppm |
| Antenna Impedance | 50Ω |
| | Receiver |
| Sensitivity (Digital) | 0.22μV / BER 5% |
| Sensitivity (Analog) | 0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD) 0.22μV (12dB 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 |

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

| | Fransmitter |
|-----------------------------|---|
| 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++ or SELP |
| Digital Protocol | ETSI-TS102 361-1,-2,-3 |
| En | vironmental |
| 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 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 subject to change without notice due to continuous development.









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