

Digital Migration Radio PD505LF

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



Features

Small, Sleek, Light

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

Long Battery Life

In digital mode, PD505LF operates at least 18 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)

PD505LF 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 mode.

Advanced Signaling

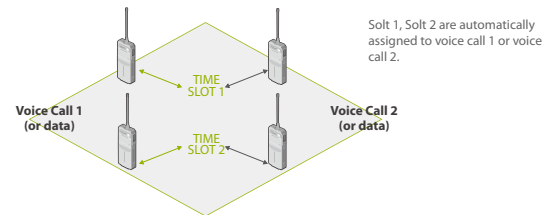
Supports multiple advanced analog signaling modes, including HDC1200, 2-Tone and 5-Tone, providing better integration into existing analog radio fleets.

DMRA Data Service

The data protocol is fully compliant to DMRA standard.

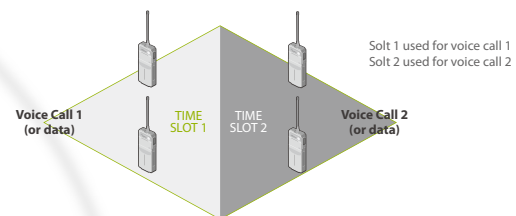
Pseudo Trunk

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

PD505LF 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 PD505LF 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.

Accessories

Versatile Accessories for Specific Tasks



Adapter PS1026

Strap RO03

BL2010 Li-ion Battery (2000mAh)

EHM15 D-earset with In-line Microphone

SM08M3 Remote Speaker Microphone

PC63 Data Cable (USB Port)

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

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

Specifications

| General | |
|-----------------------------|---|
| Frequency Range | 446MHz |
| Channel Capacity | 32 |
| Zone Capacity | 3 |
| Channel Spacing | 12.5KHz |
| Operating Voltage | 7.4V |
| Battery | 1500mAh (Li-Ion) |
| Battery Life (5/5/90) | Analog: about 16 Hours Digital: about 18 Hours |
| Weight | 260g |
| Dimensions | 115 x 54 x 27mm |
| Frequency Stability | ±0.5ppm |
| Antenna Impedance | 50Ω |
| Transmitter | |
| RF Power Output | 0.5W |
| FM Modulation | 11K0F3E |
| 4FSK Digital Modulation | 12.5KHz Data Only: 7K60FXD 12.5KHz Data & Voice: 7K60FXW |
| Conducted/Radiated Emission | -36dBm <1GHz, -30dBm >1GHz |
| Modulation Limiting | ±2.5KHz |
| FM Hum & Noise | 40dB |
| Adjacent Channel Power | 60dB |
| Audio Response | +1 ~ -3dB |
| Audio Distortion | ≤3% |
| Digital Vocoder Type | AMBE++ |
| Digital Protocol | ETSI-TS102 361-1,-2,-3 |

| 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 60dB |
| Spurious Response Rejection | TIA-603 ETSI | 70dB 70dB |
| Inter-modulation | TIA-603 ETSI | 70dB 65dB |
| Hum & Noise | | 40dB |
| Rated Audio Power Output | | 0.5W |
| Rated Audio Distortion | | ≤3% |
| Audio Response | | +1 ~ -3dB |
| Conducted Spurious Emission | | <-57dBm |
| 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 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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