

PD5 Series

Digital Portable Radio



- Analog / Digital Dual Mode Operation for Easy Transition to Digital
- Pseudo Trunk Enhances System Access Without Additional Infrastructure



PD562

PD502



PD5 Series

The PD5 Series is an open-standard DMR radio capable of providing quality voice communication in a design approved to IP54 and MIL-STD 810 testing. The Hytera-patented pseudo-trunking maximizes channel usage and the long lasting battery life yields approximately 16 hours under a 5-5-90 duty cycle in digital mode. The PD5 Series is the ideal solution for organizations looking for a cost-effective way to migrate to clear digital communication.

Applications

Hotel

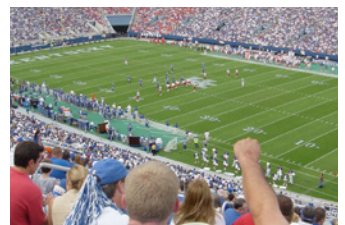
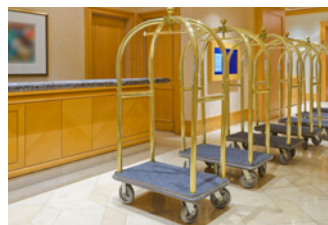
Education

Security

Warehouse

Retail

Events

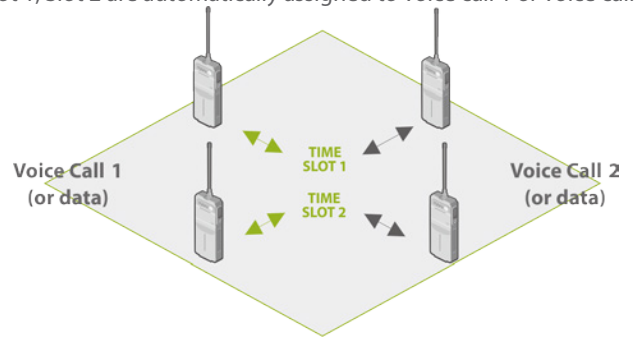


Product Features

- Smaller, Sleeker, Lighter**
 The PD502 is 4.53 x 2.13 x 1.06 inches, weighing 9.7oz. The PD562 is 4.53 x 2.13 x 1.18 inches, weighing 9.9oz. The PD5 Series has dual-color injection molding.
- Long Battery Life**
 In digital mode, the PD5 Series can operate for approximately 16 hours under a duty cycle of 5-5-90.
- Rugged & Reliable**
 Complies with MIL-STD-810 C/D/E/F/G standards and is IP54 (5: Generally protected against dust; 4: Protected against the effects of light rain or minor water splashes) ensuring outstanding performance.
- Advanced Signaling**
 Supports multiple advanced analog signaling modes, including HDC1200, 2-Tone and 5-Tone, providing better integration into existing analog radio fleets.
- Secure Communication**
 Provides basic digital encryption and Scrambler feature in analog mode.
- DMRA Data Service**
 The data protocol is fully compliant to the DMRA standard.
- One Touch Call/Text**
 Supports One Touch features that include Preprogrammed Text Messages, Voice Calls and Supplementary Features.
- Supplementary Features (Factory Option)**
 The PD5 Series can decode radio enable, radio disable, and remoter monitor, as well as Priority Interrupt.
- Dual Mode: Analog & Digital**
 Dual modes operation allows the programming of both analog to digital migration.

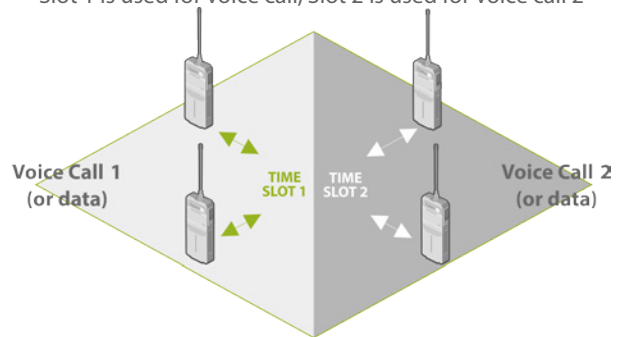
- Pseudo Trunk**
 This virtual trunking feature allocates a free timeslot for urgent communications. This effectively enhances frequency efficiency and allows you to communicate in a timely manner in emergency situations. See example below.

Slot 1, Slot 2 are automatically assigned to voice call 1 or voice call 2



- DMO True 2-Slot**
 In direct mode Hytera can provide 2-slot communication, which allows for 2 talk paths on 1 frequency. See example below.

Slot 1 is used for voice call, Slot 2 is used for voice call 2



Accessories

Included

- Li-Ion Battery
- MCU Rapid-rate Charger
- Power Adapter
- Antenna
- Belt Clip
- Leather Strap

Optional



Remote Speaker Microphone (IP55) SM13M1



MCU Multi Unit Charger (for Thick Batteries) MCA08



Programming Cable (USB Port) PC63



Battery 2000mAh (Li-Ion) BL2010

See website for full list

Specifications

| | | | |
|--------------------|---------------------------|--|---------------------------|
| General | Frequency Range | VHF: 136 - 174MHz UHF: 400 - 470MHz | |
| | Channel Capacity | PD502 | 32 |
| | | PD562 | 512 |
| | Zone Capacity | PD502 | 3 |
| | | PD562 | 32 |
| | Channel Spacing | 25 / 20 / 12.5KHz | |
| | Operating Voltage | 7.4V | |
| | Battery | 1500mAh (Li-Ion) | |
| | Battery Life (5/5/90) | Analog | Approx. 11hrs |
| | | Digital | Approx. 16hrs |
| | Frequency Stability | ± 0.5ppm | |
| | Antenna Impedance | 50 Ω | |
| | Dimensions (HxWxD) | PD502 | 4.53 x 2.13 x 1.06 inches |
| | | PD562 | 4.6 x 2.17 x 1.18 inches |
| | Weight | PD502 | 9.17oz |
| PD562 | | 9.9oz | |
| FCC ID | See website for full list | | |
| Industry Canada ID | See website for full list | | |

| | | |
|------------------------------|----------------------------|---|
| Environmental Specifications | Operating Temperature | -22° F ~ +140° F |
| | Storage Temperature | -40° F ~ +185° F |
| | 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 | 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 |

| | | |
|-----|------------------------------------|-------------|
| GPS | TTF (Time To First Fix) Cold Start | <1 minute |
| | TTF (Time To First Fix) Hot Start | <10 seconds |
| | Horizontal Accuracy | <10 meters |

20KHz / 25KHz will not be available on new equipment in the U.S. after January 1st, 2011

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|-------------|--|---|
| Transmitter | RF Power Output | VHF: High 5W - Low 1W UHF: High 4W - Low: 1W |
| | FM Modulation (Analog Emissions Designator) | 11K φF3E @ 12.5KHz; 14KφF3E @ 20KHz; 16KφF3E @ 25KHz |
| | 4FSK Digital Modulation (Digital Emissions Designator) | 12.5KHz Data Only: 7K6φFXD 12.5KHz Data & Voice: 7K6φFXW |
| | 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 Protocol | ETSI-TS102 361-1, 2&3 |

| | | | |
|-----------------------------|--|--|--|
| Receiver | Sensitivity | Analog | 0.22 μ V (12dB SINAD); 0.22 μ V (Typical) (12dB SINAD); 0.4 μ V (20dB SINAD) |
| | | Digital | 0.22 μ 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 | |
| | S/N | 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 | | |

Your Local Dealer

Hytera America

Address: 3315 Commerce Parkway
Miramar, Florida 33025, USA
Tel: 800-845-1230 Fax: 954-846-1672
<http://www.hytera.us>

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EN20140627C