

PD602

Rugged Digital Radio



- Durable and Feature-Rich in an Innovative, Compact Design
- GPS Option and Integration with Data Applications



PD602

The PD602 is an open-standard DMR radio rich in features for both voice and data communication in a design approved to rigorous IP67 and MIL-STD 810 testing. It is the ideal solution for organizations looking for an affordable migration from analog to digital technology. The Hytera-patented pseudo-trunking maximizes channel usage. The PD602G also comes with an optional GPS chip that allows the radio to integrate with Hytera SmartDispatch or other 3rd party GPS dispatching software.

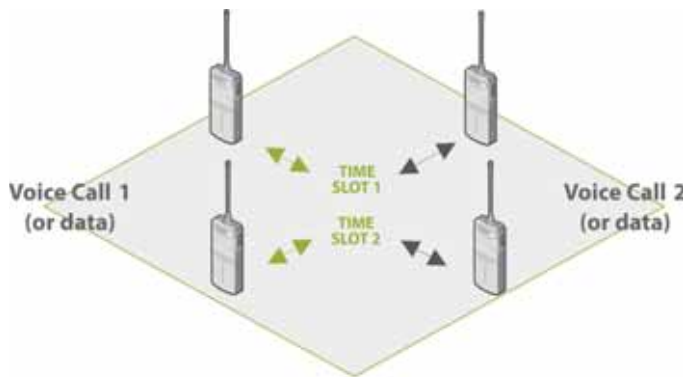
Applications

- Construction
- Education
- Hospital
- Hotel
- Security
- Factories
- Farming
- Forestry

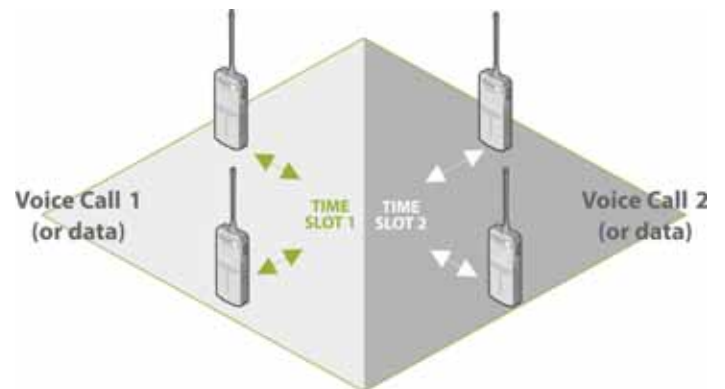


Product Features

- **Smaller, Sleeker, Lighter**
The size is 4.7 X 2.13X 1.1 inches, PC & Metal frame, weight is 10.23oz.
- **Rugged & Reliable**
Complies with MIL-STD-810 C/D/E/F/G standards and passes HALT (Highly Accelerated Life Test).
- **Wider Available Frequency Range**
Expanded frequency range of 400-527MHz.
- **Dual Mode: Analog & Digital**
Dual mode (analog & digital) operation ensures a smooth analog to digital migration.
- **Secure Communication**
Allows basic/advanced 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. See example below
- **GPS Positioning (Factory Option)**
The built-in GPS module in the PD602G supports GIS applications.
- **Man Down (Factory Option)**
When a user falls down, the radio can automatically alert others.
- **Further Development Port**
The reserved side port allows users or any third party partner to further develop other helpful applications to extend radio functionalities.
- **One Touch Call/Text**
Supports One Touch features that comprise of Preprogrammed Text Messages, Voice Calls and Supplementary Features.
- **Supplementary Features**
PD602 can decode radio enable, radio disable, and remoter monitor as well as Priority Interrupt.
- **Radio Priority-Based Interruption**
Enables an administration or manager radio to interrupt calls for emergency or urgent communication.
- **IP67 Protection**
The Ingress Protection reaches IP67 (6: Totally protected against dust; 7: Protected against the effects of immersion up to 1m for 30 minutes). It's the highest IP level for land-based wireless radio application.
- **DMO True 2-Slot**
In Directmode Hytera can provide 2-slot communication, which allows for 2 talk paths on 1 frequency. See example below.



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



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

Accessories

Included

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

Optional



Detachable Earpiece with Transparent Acoustic Tube EHN22



MCU Multi-Unit Charger (for Thick Battery) MCA08



Programming Cable (USB Port) PC45



Remote Swivel Earset EHN20

See website for full list

Specifications

| | | | | |
|--------------------|---|--|---------------|--|
| General | Frequency Range | VHF: 136 - 174MHz UHF: 400 - 527MHz | | |
| | 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 | Approx. 11hrs | |
| | | Digital | Approx. 16hrs | |
| | Frequency Stability | ±0.5ppm | | |
| | Antenna Impedance | 50 Ω | | |
| | Dimensions (HxWxD) | 4.7 X 2.13X 1.1 inches | | |
| | Weight | 10.23oz | | |
| | FCC ID | 136-174MHz: Pending 400 - 512MHz: YAMPD60XUHF | | |
| Industry Canada ID | 138-174MHz: Pending 406.1 - 470MHz: 8913A-PD602UHF | | | |

| | | |
|------------------------------|----------------------------|--|
| 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 | IP67 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 | TTFF (Time To First Fix) Cold Start | <1 minute |
| | TTFF (Time To First Fix) Hot Start | <10 seconds |
| | Horizontal Accuracy | <10 meters |

| | | |
|-------------|--|--|
| Transmitter | RF Power Output | VHF: High 5W - Low 1W UHF: High 4W - Low 1W |
| | FM Modulation (Analog Emissions Designator) | 11K fF3E @ 12.5KHz; 14KfF3E @ 20KHz; 16KfF3E @ 25KHz |
| | 4FSK Digital Modulation (Digital Emissions Designator) | 12.5KHz Data Only: 7K6fFXD 12.5KHz Data & Voice: 7KfFXW |
| | 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 |

| | | | |
|----------|---|--|---|
| Receiver | Sensitivity | Analog | 0.22 m V (12dB SINAD) ; 0.22 m V (Typical) (12dB SINAD); 0.4 m V (20dB SINAD) |
| | | Digital | 0.22 m 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 | |
| | Blocking TIA-603 ETSI | 90dB 84dB | |
| | S/N | 40dB @ 12.5KHz; 43dB @ 20KHz; 45dB @ 25KHz | |
| | Rated Audio Distortion | ≤ 3% | |
| | Audio Response | +1 ~ -3dB | |
| | Conducted Spurious Emission | < -57dBm | |

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