



PD482i UHF/VHF Two-Way DMR Radio

The PD482i is a cost-effective two-way radio with advanced features:

- Functions in digital and analog modes in radio-to-radio calls, or with any Hytera repeater or base station
- Rugged and ergonomic design with full keypad, high contrast OLED screen, and programmable buttons
- Built-in GPS and Bluetooth, emergency calling, and voice activated communications (VOX)
- Supports Tier II radio networks, pseudo trunking, and Radio Registration Service for connectivity to dispatch applications





PD482i Key Features



ERGONOMIC AND EASY TO USE

- Tactile buttons for no-look PTT and emergency calling
- High contrast OLED screen, full keypad, and three programmable buttons
- Dual band antenna supports UHF or VHF



HIGH QUALITY AUDIO

- Audio equalizer adjusts low, mid, and high frequency gain
- Provides the best audio performance in noisy or quiet environments



LONG-LIFE BATTERY

- Powerful Li-Ion 2000mAh battery
- Delivers up to 22 hours of operation in digital mode and 16 hours in analog mode



RELIABLE AND DURABLE

- Compliant with MIL-STD-810 G for impact strength and durability, and IP54 water and dust ingress
- -22°F to +140°F (-30°C to +60°C) operating temperature



EMERGENCY ALARMS AND CALLING

- Emergency Alarms can be sent to other radios via the one touch programmable button
- Improves worker safety and emergency response time



ANALOG & DIGITAL AUTO DETECT

- Simultaneously monitors analog and digital modes and automatically responds in each mode
- Enables simple and cost-effective migration from analog to digital



ENCRYPTION

- Ensures private and secure voice and data transmission



REAL TIME CLOCK

- Real-time display, call logs, GPS synchronization, and messaging



TEXT MESSAGING

- Free-form text messaging with full keypad
- Stores up to ten pre-defined text messages



GPS POSITIONING

- The built-in GPS enables real-time location tracking for dispatch applications (only on PD482i-G-BT models)



BLUETOOTH

- Built-in Bluetooth enables connectivity to earpieces and other wireless accessories (only on PD482i-G-BT models)



VOX

- Voice activated communications (VOX) activates the microphone by speaking to enable hands-free operation
- Also supported on external earpiece and microphone accessories



UPGRADE FEATURES (Optional)

- Priority Interrupt allows dispatcher to interrupt existing calls with important emergency information
- Remote Monitor allows dispatcher to key the PTT button and listen in an emergency situation
- Stun/Revive enables dispatch and other users to disable/enable a radio if it is stolen, lost, or used maliciously

Standard Accessories

INCLUDED WITH THE PD482i



R003
Nylon Hand Strap



BC08
Belt Clip



Stubby Antenna



Power Adapter
Input: 100-240VAC
Output: 12VDC/1A



CH10A07
Drop-In Single Unit
Rapid-Rate Charger



BL2010
2000mAh Li-Ion Battery

Optional Accessories

EARPIECES

External earpieces with in-line PTT Mics and VOX (hands free) switch



EHM15-A
D-Style Earloop



ESM12
Earbud



EAM12
Transparent Acoustic
Tube Earpiece



ACM-01
PTT and Mic with 3.5mm Jack
Connects to a variety of Receive-only Earpieces^①

REMOTE SPEAKER MICROPHONES

Remote Speaker Mics provide easy access for audio, are IP rated for water resistance, and have audio jacks for receive only earpieces.



SM08M3^①
IP54 Rated
3.5mm audio jack



SM13M1^①
Noise Cancelling with
High / Low Speaker Volume
IP55 Rated, 3.5mm audio jack



SM26M1^②
IP54 Rated
2.5mm audio jack

^① Features 3.5mm jack for receive-only ES01 Earbud, ES02 Acoustic Tube Surveillance Earpiece, EH01 C-Style Earpiece, and EH02 Swivel C-Style Earpiece

^② Features 2.5mm jack for receive-only EAS03 Acoustic Tube Earpiece, EHS18 Earloop Earpiece, and ESS10 Earbud

Systems and Network Features

ROAMING

- Allows radios to seamlessly move between connected repeaters with uninterrupted voice transmission

PSEUDO TRUNK

- This virtual trunking feature automatically uses whichever digital timeslot is free to improve call connectivity and frequency efficiency

DMR TIER II

- The PD482i can be deployed on DMR Tier II systems

RADIO REGISTRATION SERVICE

- RRS allows the PD482i to communicate with dispatch and unified communications applications

BLUETOOTH



POA121
PTT Bluetooth Ring
(attach to finger or handlebars)



ESW-01
Bluetooth earpiece with charger
(requires PS1030 power adapter)

CHARGERS AND OTHER ACCESSORIES



CH10A06-PS2002
Dual Pocket Charger
(Radio and one battery)
with Power Adaptor



MCA08
Multi-unit Charger for Six
Li-ion Batteries with power supply (12V/7A)



BL1504
1500mAh Li-Ion Battery
(Smaller and lighter than
standard 2000mAh battery)



CHV09
Vehicle Adaptor
(Input: 11-25V DC, Output: 12V DC & 1A)



PC76
Data programming cable



NCN011
Nylon Carrying Jacket



AN0435W09
400-470MHz
Antenna

Specifications

| General | |
|-------------------------------------|--|
| Frequency Range | UHF 350-470MHz, VHF 136-174MHz |
| Channel Capacity | 256 Channels (128 Analog, 128 Digital) |
| Zone Capacity | 16 Zones with 16 Channels per Zone |
| Channel Spacing | 25/12.5kHz |
| Operational Voltage | 7.4W |
| Battery | 2000mAh (Li-Ion) Standard, 1500mAh Optional |
| Battery Life (5/5/90) | 22 hours Digital, 16 Analog (Standard 2000mAh) 16 hours Digital, 11 Analog (Optional 1500mAh) |
| Weight | 10.86oz (308g) |
| Dimensions | 4 5/8" x 2 5/32" x 1 15/32" (117 x 55 x 37mm) |
| Frequency Stability | ± 0.5ppm |
| Antenna Impedance | 50Ω |
| GPS | |
| TTFF (Time to First Fix) Cold Start | <50 Seconds |
| TTFF (Time to First Fix) Hot Start | <5 Seconds |
| Horizontal Accuracy | <10 meters |
| Receiver | |
| Digital Sensitivity | 0.22μV (BER 5%) |
| Analog Sensitivity | 0.22μV (Typical) (12dB SINAD) 0.4μV (20dB SINAD) 0.22μV (12dB SINAD) |
| Adjacent Selectivity | TIA-603: 60dB @ 12.5kHz, 70dB @ 25kHz ETSI: 60dB @ 12.5kHz, 70dB @ 25kHz |
| Spurious Response Rejection | TIA-603: 70dB @ 12.5/25kHz ETSI: 70dB @ 12.5/25kHz |
| Intermodulation | TIA-603: 70dB @ 12.5/25kHz ETSI: 65dB @ 12.5/25kHz |
| Hum and Noise | 40dB @ 12.5kHz, 45dB @ 25kHz |
| Rated Audio Power Output | 0.5W |
| Rated Audio Distortion | ≤3% |
| Audio Response | +1 to -3dB |
| Conducted Spurious Emission | <-57dBm |

All specifications are subject to change without notice due to continuous development.



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SERIES

| 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 16K0F3E @ 25kHz |
| 4FSK Digital Modulation | 12.5kHz Data Only: 7K60FXD 12.5kHz Data and Voice: 7K60FXW |
| Conducted/Radiated Emission | -36dBm <1GHz, -30dBm >1GHz |
| Modulation Limiting | ±2.5kHz @ 12.5kHz ±5.0kHz @ 25kHz |
| FM Hum and Noise | 40dB @ 12.5kHz, 45dB @ 25kHz |
| Adjacent Channel Power | 60dB @ 12.5kHz, 70dB @ 25kHz |
| Audio Response | +1 to -3dB |
| Audio Distortion | ≤3% |
| Digital Vocoder Type | AMBE++ |
| Digital Protocol | ETSI-TS102 361-1,-2,-3 |
| Environmental | |
| Operating Temperature | -22°F to +140°F (-30°C to +60°C) |
| Storage Temperature | -40°F to +185°F (-40°C to +85°C) |
| ESD | IEC 61000-4-2 (Level 4) ±8kV Contact, ±15kV Air |
| Dust and Water Ingress | IP45 Standard |
| Humidity | Per MIL-STD-810 C/D/E/F/G Standard |
| Shock and Vibration | Per MIL-STD-810 C/D/E/F/G Standard |

Ordering Information

| Part Number | Description |
|----------------|---|
| PD482i-G-BT-Uv | UHF 350-470MHz (Antenna 400-470), 256CH, 4W, GPS, Bluetooth |
| PD482i-G-BT-V1 | VHF 136-174MHz (Antenna 147-160), 256CH, 1-5W, GPS, Bluetooth |
| PD482i-Uv | UHF 350-470MHz (Antenna 400-470) 256CH, 4W |
| PD482i-V1 | VHF 136-174MHz (Antenna 147-160) 256CH, 1-5W |