ENRICHING YOUR DIGITAL EXPERIENCE
NEW MEMBER TO WORLD'S MOST COMPLETE DMR PORTFOLIO
PD982
**PD98X Highlight**

**Brand New Features**

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**01**

**Micro SD Card**

PD982 uses micro SD storage technology to allow recording and storage of critical voice calls or data transmissions.

PD98X supports maximum 32G micro SD card, to record up to 576 hours digital/analogue voice.

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**02**

**Single Frequency Repeater Mode**

Using interference cancellation technique, PD982 can use one slot to receive signal and another slot to transmit it on the same frequency at the same time, extending communications distance in DMO mode.

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**03**

**Bluetooth 4.0**

PD982 has built in Bluetooth 4.0, which not only supports audio transmission, but also allows data transmission, such as programming via Bluetooth etc.

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**04**

**Full Duplex Call**

PD982 can make full duplex calls with other PD982, telephones or cellphones.

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**05**

**RTC Clock**

RTC clock feature allows customers to check the accurate time of received message and call.

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**06**

**Smart Battery**

Compared with PD78X, PD98X support smart battery, which makes it easier to monitor the battery status, such as battery life time and remaining charge time by smart battery charge. This also reduces the charging time dramatically.
PD982 Highlight
Hardware Advantages

**Better Sensitivity and Frequency Stability**
Advanced technology improves receiving performance to enhance communication distance and reliability.

**Sensitivity 26%+**
Compared with PD782, PD982 adopts brand new hardware design enhanced with 26% more sensitivity.

**Longer Battery Life**
PD982 adopts new battery saving technology to guarantee longer communication time.

**Battery life 33%+**
Compared with PD782, PD982 adopts new battery saving technology providing 33% more battery life.

**IP68 Protection**
IP68 Dust and Waterproof Standards ensures outstanding performance even in harsh environments.

**Enhanced Voice Quality**
Maximum 2.5W output speaker and new noise cancelling technology ensures clear and loud voice communication.

**360° Seemless Channel Knob Turn**
With this kind of knob, users can change channels and zone easily and comfortably.

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**Noisy environment**

*Figure 1 Without noise cancellation*

*Figure 2 With noise cancellation*

**Windy environment**

*Figure 1 Without echo cancellation*

*Figure 2 With echo cancellation*
Features

Base Information
- Full Keypad, Color Screen, 1024 Channels
- Analog and Digital Dual Mode
- Bluetooth (4.0) Audio
- Bluetooth (4.0) Data
- Integrated GPS
- Integrated GLONASS
- Pre-programmed Text Messaging
- Freeform Text Messaging
- Option Board
- Roaming
- Scan
- Voice Notification

Safety
- Emergency Alarm
- Dedicated Emergency Button
- Alert Call
- Man Down
- Lone Worker
- Basic Encryption
- Enhanced Encryption (40bit)
- Enhanced Encryption (128/256bit)
- Multiple Key Encryption
- Priority Interrupt
- Remote Monitor
- Radio Enable/Disable
- Radio Check
- IP68 Dust and Waterproof
- Vibration
- GPS SMS
- GPS Location check

Audio
- Auto Gain Control
- Acoustic Feedback Suppressor
- Loudness Quality Optimization
- Multi Band Equalization
- Noise Reduction Technology

Systems
- Analog Conventional
- DMR Conventional
- IP Site Connect
- MPT-1327
- DMR Simulcast System
- XPT Trunking
- DMR Trunking

Advance Features
- Pseudo Trunk
- Telemetry
- Rent
- Phone Interconnect
- Full Duplex Call (DMR Tier 3 System)
- Full Duplex Call (DMR Conventional System)
- Single Frequency Repeater Mode
- Micro SD Card
- Smart Battery
- RTC Clock

NOTES
- These features will be available later by software upgrade upgrade
- Standard feature
- Optional feature
Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>UHF: 350-527MHz</td>
</tr>
<tr>
<td>Channel Capacity</td>
<td>1024</td>
</tr>
<tr>
<td>Zone Capacity</td>
<td>64 (maximum of 128 channels per zone)</td>
</tr>
<tr>
<td>Channel Spacing</td>
<td>12.5kHz / 20kHz / 25kHz</td>
</tr>
<tr>
<td>Operating Voltage</td>
<td>7.4V (rated)</td>
</tr>
<tr>
<td>Battery</td>
<td>2000mAh (Li-ion)</td>
</tr>
<tr>
<td>Battery Life</td>
<td>5.5-90 Duty Cycle, High TX Power</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>131 x 54.5 x 36mm</td>
</tr>
<tr>
<td>Weight (with antenna &amp; standard battery)</td>
<td>120g</td>
</tr>
<tr>
<td>Selectivity (I+ II+ III+)</td>
<td>60dB @ 12.5kHz / 70dB @ 20/25kHz</td>
</tr>
<tr>
<td>Selectivity (ETSI C)</td>
<td>60dB @ 12.5kHz / 70dB @ 20/25kHz</td>
</tr>
<tr>
<td>Noise Response Rejection</td>
<td>70dB @ 12.5/20/25kHz</td>
</tr>
<tr>
<td>Noise Blocking</td>
<td>84dB</td>
</tr>
<tr>
<td>Hum and Noise</td>
<td>40dB @ 12.5kHz, 43dB @ 20kHz, 45dB @ 25kHz</td>
</tr>
<tr>
<td>Rated Audio Power Output</td>
<td>0.5W</td>
</tr>
<tr>
<td>Rated Audio Distortion</td>
<td>* 5%</td>
</tr>
<tr>
<td>Audio Response</td>
<td>-1 ~ +3dB</td>
</tr>
<tr>
<td>Conducted Spurious Emission</td>
<td>&lt; 54dBm</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>Analog 0.22uV / Digital 0.22uV</td>
</tr>
<tr>
<td>RF Power Output</td>
<td>UHF High Power: 4W BHF Low Power: 1W</td>
</tr>
<tr>
<td>FM Modulation</td>
<td>11K0F3E @ 12.5kHz</td>
</tr>
<tr>
<td>Digital Modulation</td>
<td>14K0F3E @ 20kHz</td>
</tr>
<tr>
<td>Modulation Limiting</td>
<td>16K0F3E @ 25kHz</td>
</tr>
<tr>
<td>4FSK Digital Modulation</td>
<td>12.5kHz Data: 76K60FXD</td>
</tr>
<tr>
<td>Modulation Limiting</td>
<td>12.5kHz Data: 76K60FXW</td>
</tr>
<tr>
<td>FM Hum &amp; Noise</td>
<td>40dB @ 12.5kHz, 43dB @ 20kHz, 45dB @ 25kHz</td>
</tr>
<tr>
<td>Adjacent Channel Power</td>
<td>60dB @ 12.5kHz, 70dB @ 20/25kHz</td>
</tr>
<tr>
<td>Audio Response</td>
<td>+1 ~ -3dB</td>
</tr>
<tr>
<td>Audio Distortion</td>
<td>* 5%</td>
</tr>
<tr>
<td>Digital Vocoder Type</td>
<td>AMBE+1 or SEL for NVOC</td>
</tr>
<tr>
<td>Digital Protocol</td>
<td>ETSI 3102-361-1, 2, 3</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-30 ~ 60°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40 ~ -85°C</td>
</tr>
<tr>
<td>ESD</td>
<td>IEC 61000-4-2 (Level 4)</td>
</tr>
<tr>
<td>American Military Standard</td>
<td>MIL-STD-810 C/D/E/F/G</td>
</tr>
<tr>
<td>Dust &amp; Water Intrusion</td>
<td>IP68 Standard</td>
</tr>
<tr>
<td>Humidity</td>
<td>Per MIL-STD-810 C/D/E/F/G</td>
</tr>
<tr>
<td>Shock &amp; Vibration</td>
<td>Per MIL-STD-810 C/D/E/F/G</td>
</tr>
<tr>
<td>GPS Accuracy specs</td>
<td>Accuracy specs are for long term tracking (95th percentile values) 5 satellites visible at a nominal -138dBm signal strength</td>
</tr>
<tr>
<td>TTFF (Time To First Fix) Cold Start</td>
<td>&lt; 1 minute</td>
</tr>
<tr>
<td>TTFF (Time To First Fix) Hot Start</td>
<td>&lt; 10 seconds</td>
</tr>
<tr>
<td>Horizontal Accuracy</td>
<td>&lt; 10 meters</td>
</tr>
</tbody>
</table>

Optional Accessories

- Remote Speaker Microphone (P57) 5M18N2
- C-Earset EHN16
- Swivel Earset EHN17
- Earbud ESN12
- 3 Wire Surveillance Earpiece with Transparent Acoustic Tube (Beige) EAN17
- Receive only Earpiece ESS08
- Six Unit Switching Power Supply P50002
- Programming Cable (USB Port) PCM

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

Contact your dealer for more accessories information.

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