







Features



ANALOGUE & DIGITAL AUTO DETECT

Compatible with analogue conventional and digital conventional modes. Allows PD485 to simultaneously monitor analogue and digital modes and automatically respond in each mode. Extremely easy migration to digital from analogue.



DTMF SIGNALING



DUAL CAPACITY DIRECT MODE

In direct mode, you can have two voice calls simultaneously, because of the two timeslots from DMR TDMA technology. This feature can be used to increase the radio capacity at no extra cost, without the need for additional frequency licenses.



PRIVACY(Optional)

Basic end-to-end Encryption has your voice and data transmission secured.



EMERGENCY ALARM/CALL

Emergency Alarm can be sent to other radios via the one touch programmable button, establishing an emergency call in a specific group. Improves your emergency response time.



PSUEDO TRUNK (Optional)

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.



REAL TIME CLOCK

Ensures the real time is displayed on the menu and GPS/messaging.



RADIO REGISTRATION SERVICE

RRS allows the PD485 to communicate with Smart Dispatch and SmartOne, so that the dispatcher can check if the radio is on or offline.



SUPPLEMENTARY FEATURES (Optional)

The PD485 can provide radio enable/disable, remote monitor and priority interrupt as optional features.



ROAMING(Optional)

Roam from each repeater site to have a non-stop voice transmission.



GPS POSITIONING (Factory Optional)

The built-in GPS module and GPS antenna are designed for outdoor positioning, making it the ideal tool to support location based requirements.



BUILT-IN BLUETOOTH(Factory Optional)

Built-in Bluetooth supports PD485 wireless audio accessories and other Bluetooth transmissions.



RELIABLE AND DURABLE

The PD485 is compliant with Mil-STD-810 G and IP54.



VOX

This feature allows you to activate the radio microphone at speaking volume, so that you do not need to press the PTT.

Target Markets



FLEET MANAGEMENT

With RRS, the PD485 can be accessed by dispatch applications for effective radio fleet management. Whether it's voice dispatching, SDS messaging or location based services, the PD485 is ideal for team communications.



SECURITY

Privacy in any voice or data communication is essential for security teams. Emergency call, priority interrupt and remote monitor functions provide a reliable communication system to support security staff who always need to remain alert and connected.



COMMERCIAL

Clear digital voice processors and powerful audio output ensures you receive your transmission even in noisy environments. Use the wireless earpiece or other audio accessories to improve your operating experience.



OUTDOOR ADVENTURES

Flexible to program through the front panel and built to military standards, achieving IP54 rating for water and dust ingress protection, the PD485 is ready for your next adventure.

Standard



Li-ion Battery (2000mAh) BL2010



Belt Clip BC19



General MCU Rapid-rate Charger (for Li-lon/Ni-MH Batteries) CH10A07



Stubby Antenna



Switching Power Adapter



Hand Strap

Options



Specifications

| | | General |
|-----------------------------------|---------|---|
| Frequency Range | | UHF: 350-470MHz VHF: 136-174MHz |
| Channel Capacity | | 256 |
| Zone Capacity | | 16 |
| Channel Spacing | | 25/12.5KHz |
| Operating Voltage | | 7.4V |
| Battery | | 2000mAh (Li-lon) |
| Battery Life (5/5/90) | | Analogue / Digital: 12/16 hours |
| Weight | | 308g |
| Dimensions | | 117×55×37mm |
| Frequency Stability | | ±0.5ppm |
| Antenna Impedance | | 50Ω |
| | | 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 | 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 |
| Inter-modulation | TIA-603 | 70dB @ 12.5/25KHz |
| | ETSI | 65dB @ 12.5/25KHz |
| Hum & Noise | | 40dB @ 12.5KHz 45dB @ 25KHz |
| Rated Audio Power Output | | 0.5W |
| Rated Audio Distortion | | €3% |
| Audio Response | | +1 ~ -3dB |
| Conducted Spurious Emission | | |

| | 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 & Voice: 7K60FXW |
| Conducted/Radiated Emission | -36dBm <1GHz, -30dBm >1GHz |
| Modulation Limiting | ±2.5KHz @ 12.5KHz ±5.0KHz @ 25KHz |
| FM Hum & Noise | 40dB @ 12.5KHz 45dB @ 25KHz |
| Adjacent Channel Power | 60dB @ 12.5KHz, 70dB @25KHz |
| Audio Response | +1 ~ -3dB |
| Audio Distortion | ≤3% |
| Digital Vocoder Type | AMBE++ |
| Digital Protocol | ETSI-TS102 361-1,-2,-3 |
| En | vironmental |
| 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 G Standard |
| Shock & Vibration | Per MIL-STD-810 G Standard |

regional sales representatives.

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





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Encryption features are optional and have to be configured separately.

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