Hytera

Digital
Migration Radio
PD485

- Clear Audio
- Built-in Bluetooth and GPS option
- Analogue and Digital Auto Detect

DMR
DIGITAL MOBILE RADIO ASSOCIATION

ROTATING CHANNEL CONTROL

VFO
Enable fast
channel programming

PUSH-TO-TALK BUTTON

AUDIO JACK

CLEAR AUDIO

Built-in GPS
(Optional)

PROGRAMMABLE BUTTONS

1.3" OLED DISPLAY

FULL-KEYPAD

BUILT-IN BLUETOOTH
(Optional)

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

REAL TIME CLOCK

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

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.

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.

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.

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.

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-Ion/Ni-MH Batteries)
CH10A07

Stubby Antenna

Switching Power Adapter

Hand Strap

Options

EAM12
Detachable Transparent Acoustic Tube Earpiece with PTT&MIC cable

EHM19
C Style Earloop Earpiece with On-MIC PTT

EAM13
2-wire Surveillance Earpiece with VOX & Transparent Acoustic Tube (Black)

EHM20
Swivel Earpiece with PTT&MIC cable

SM26M1
Remote Speaker Microphone without emerency button (IP54)

ESM12
Earbud with On-MIC PTT and VOX switch

PC76
Data Programming Cable

LCY015
Nylon Carrying Jacket

Antenna

MCA08
MCU Multi-unit Rapid rate Charger

CH10A06
Dual Pocket MCU Charger Kit (for Li-ion/Ni-MH Batteries) (charger + power supply cable)

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-Ion)
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		<-57dBm

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

Environmental	
Operating Temperature	-30℃~ +60℃
Storage Temperature	-40℃~ +85℃
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

PD48X, X=0, 2, 5,6 or 8, model number varies geographically. For details, please contact our regional sales representatives.

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

Your Hytera partner:

Hytera
Respond & Achieve

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