



Standard

Options



Specifications

General	
Frequency Range	UHF: 400-470MHz, 450-520MHz VHF: 136-174MHz
Channel Capacity	256
Zone Capacity	3
Channel Spacing	25/12.5KHz
Operating Voltage	7.4V
Battery	1500mAh (Li-Ion) 2000mAh (Li-Ion)
Battery Life (5/5/90)	Analog/Digital: 10/13 hours (1500mAh) 13/17 hours (2000mAh)
Weight	270g
Dimensions	112x55x31mm
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
RFID Reading Range	up to 4cm
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°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 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

PD41X, 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.

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# Digital Patrol Radio PD41X

DMR standard radio, double channel capacity  
Analog & Digital Mixed Channel, embedded RFID



## Features

### Abundant Voice Call

Voice communication includes private, group and all call.



### Rugged & Reliable

It is compliant with MIL-STD-810 C/D/E/F/G standards & IP54.

### Small, Sleek, Light

With dual-color injection, the size is 112x55x31mm and weight is 270g.

### Long Battery Life

In digital mode, PD41X operates at least 16 hours under a duty cycle of 5-5-90 @1500mAh.

### Preprogrammed Text Messages

### One Touch Call/Text

Support One Touch features that comprise of Voice Calls and Preprogrammed Text Messages.

### Dual Mode (Analog & Digital)

Dual modes (analog & digital) operation ensures a smooth migration from analog to digital.

### VOX

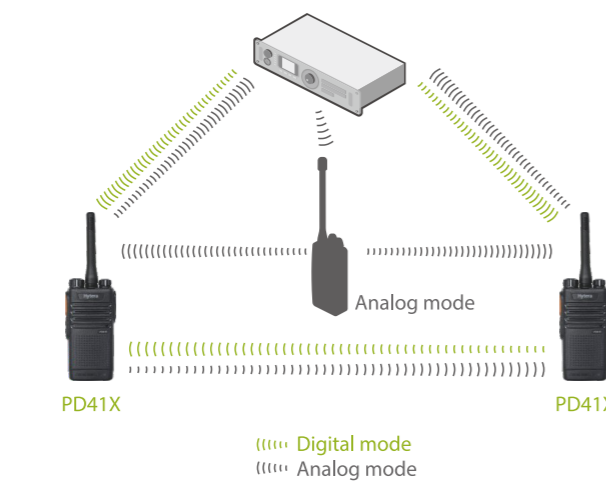
The VOX (Voice-operated Transmit) feature allows you to trigger the voice transmission by voice directly rather than PTT. This brings more convenience to you in radio use.

### Further Development Port for radio and RFID

The API allows third party partner to further develop other helpful applications to extend the radio RFID functionalities.

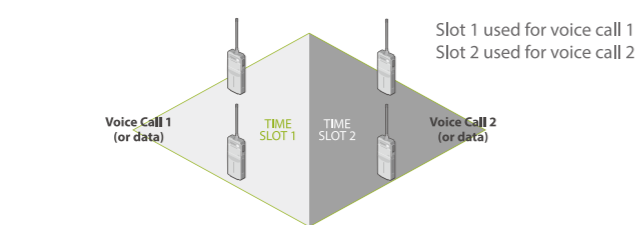
### Embedded RFID

With an embedded RFID reader, PD41X can read the information of a RFID tag and automatically send it out by radio. These RFID and data auto transmission features make PD41X supporting Hytera Patrol system, which is a real-time tour guard solution. Hytera also offers the open API of PD41X for developing your own application.



### DMRA Direct Mode TDMA (True 2-slot)

In DMO Hytera can provide 2-slot communication, which allows for 2 talk paths on 1 frequency.



LIGHT & DURABLE  
DIGITAL VOICE, CLEARER AND LOUDER  
EMBEDDED RFID  
ANALOG & DIGITAL MIXED CHANNEL



## Hytera PD41X Patrol System

Hytera Patrol System is a tour guard solution to provide real-time tracking management. It's composed of Patrol Radio, Receiving Station, Patrol Checkpoint and Patrol Software. It allows an operator to monitor the real-time tour guard because the patrol data is sent to the receiving station connected to PC (Patrol Software). And this system also supports some features including one-touch alarm on radio, patrol data resend, setting patrol plan, data query, data backup, etc.

