Hytera



Digital **Migration** Radio

PD48X

- Clear Voice
- Built-in Bluetooth & GPS(Factory optional)

DMR
DIGITAL MOBILE RADIO ASSOCIATION

www.hytera.com



Features

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

DTMF SIGNALING

EMERGENCY ALARM/CALL
Emergency Alarm can be sent to other radios via one touch of programmable button, then establish an emergency call in a specific group. Make your response for big event more quickly.

PSEUDO TRUNK
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
Get a real time displaying on menu and for GPS/text message.

VOX
This feature allows you to activate the radio microphone via speaking volume, so that free your hands on PTT.

RADIO REGISTRATION SERVICE
RRS allows PD48X working in Smart Dispatch and Smart One Dispatch, so that the dispatcher can check if the radio is on line or off line.

SUPPLEMENTARY FEATURES *(Optional)*
PD48X Series provide radio enable/disable, remoter monitor and priority interrupt.

ROAMING *(Optional)*
Roam from each repeater site to have a non-stop voice transmission.

GPS POSITIONING *(Factory Optional)*
Built-in GPS module and GPS antenna are designed for outdoor positioning and make it very simple to support different kinds of AVL applications.

BUILT-IN BLUETOOTH *(Factory Optional)*
Built-in Bluetooth supports PD48X to have wireless audio accessories and other Bluetooth transmission.

RELIABLE AND DURABLE
PD48X is compliant with MIL-STD-810 G and IP54.

Target Markets



FLEET MANAGEMENT

With RRS, PD48X is allowed to be access to Dispatch application for fleet management. Get what you need for PD48X, like voice dispatch, text message or AVL.



COMMERCIAL

Digital clear voice and loud output audio for most situations with noisy environment in commercial event. With wireless earpiece and text message function, get everything working fine in an easy way.



SECURITY

Privacy in voice and data is the most essential for security guard. Emergency Call, Priority Interrupt, or Remote Monitor function provides a reliable communication.



OUTDOOR ADVENTURES

Quite flexible to quickly program the radio through front panel. Got GPS position in real time. Based on military quality and IP54 water-proof, it is an amazing way to guarantee safety from unexpected event.

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



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)		Analog/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
SAR		
Maximun SAR value(10g) 10.0W/kg Limit		
Head		**⩽10.0W/kg**
Body		**⩽10.0W/kg**

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+2™
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 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.

Hytera
Respond & Achieve

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