

## SPECIFICATIONS

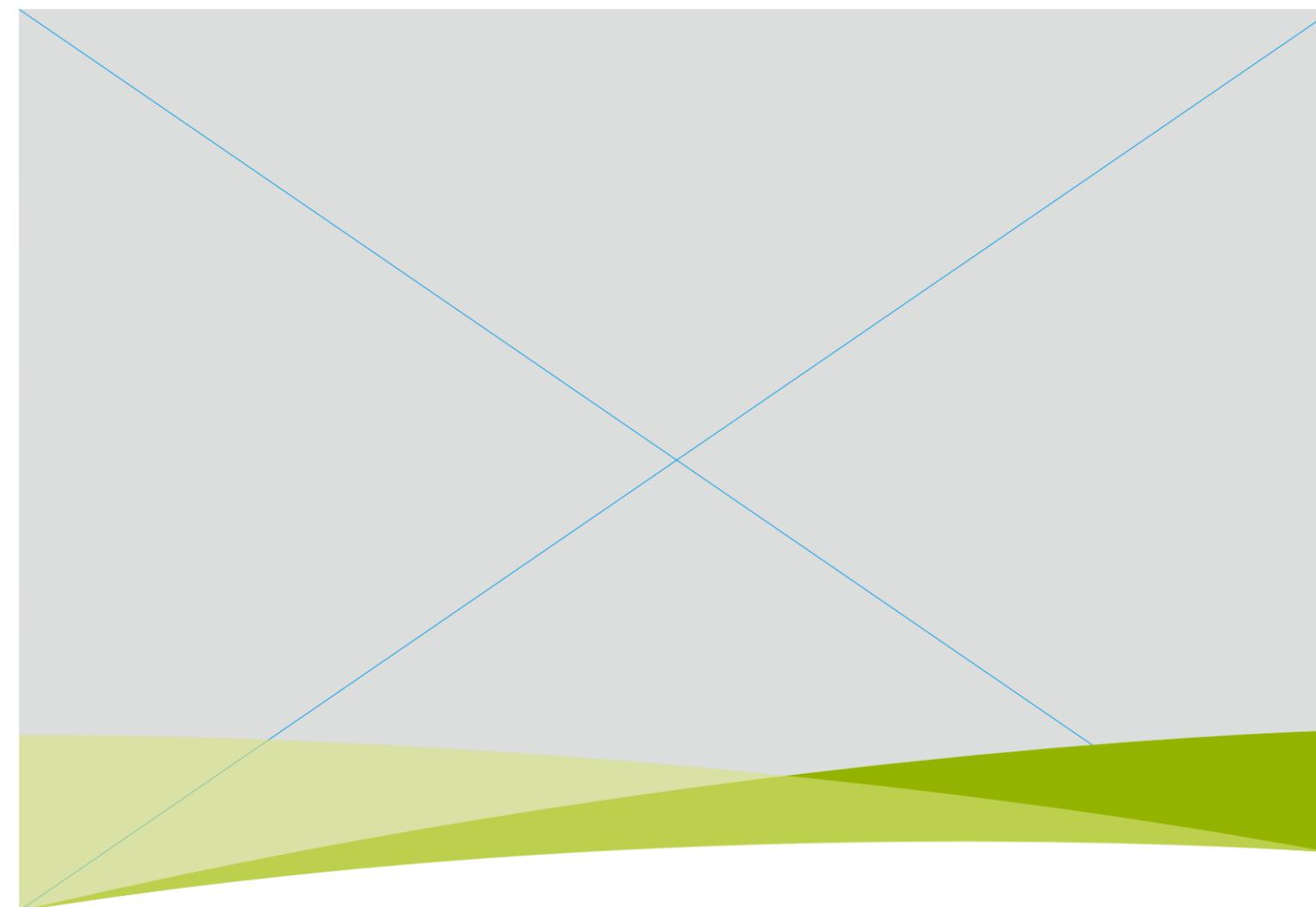
GENERAL			
Frequency Range	UHF1: 400-470MHz; UHF2:450-520MHz UHF3: 350-400MHz; VHF: 136-174MHz		
Channel Capacity	1024		
Zone Capacity	64(each with a maximum of 256 channels)		
Channel Spacing	Analog: 25/20/12.5kHz Digital: 12.5kHz		
Operating Voltage	13.6 V ±15%		
Current Drain	Standby	< 0.6A	
	Receive	< 2.0A	
	Transmit	1W	<2A
		25W	<8A
45W		<12A	
50W	<12A		
Weight	1.7 kg		
Dimensions (H×W×D)	60 x 174 x 200 mm		
Frequency Stability	±0.5 ppm		
Antenna Impedance	50Ω		
LCD Display	2.0 inch, 4 rows		
RECEIVER			
Sensitivity	Analog	0.22μV (12dB SINAD) 0.18μV (12dB SINAD) (Typical)	
	Digital	0.35μV (20dB SINAD) 0.22μV/BER5%	
Selectivity	TIA-603	65dB @ 12.5kHz / 75dB @ 20/25kHz	
	ETSI	60dB @ 12.5kHz / 70dB @ 20/25kHz	
Intermodulation	TIA-603	75dB @ 12.5/20/25kHz	
	ETSI	70dB @ 12.5/20/25kHz	
Spurious Response	TIA-603	75dB @ 12.5/20/25kHz	
	ETSI	70dB @ 12.5/20/25kHz	
Rejection	40dB @ 12.5kHz; 43dB @ 20kHz		
Hum and Noise	45dB @ 25kHz		
Rated Audio Power Output	Internal (@20 ohm load)	3W	
	External (@8 ohm load)	7.5W	
Max Audio Power Output	Internal (@20 ohm load)	8W	
	External (@8 ohm load)	20W	
Rated Audio Distortion	≤3%		
Audio Response	+1 ~ -3dB		
Conducted Spurious Emission	<-57dBm		

TRANSMITTER	
RF Power Output	Low power : 1-25W High power : UHF: 1-45W; VHF: 1-50W
FM Modulation	11K0F3E @ 12.5kHz; 14K0F3E @ 20kHz; 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; ±4.0kHz @ 20kHz; ±5.0kHz @ 25kHz
FM Hum & Noise	40dB @ 12.5kHz; 43dB @ 12.5kHz 45dB @ 25kHz
Adjacent Channel Power	60dB @ 12.5kHz; 70dB @ 20/25kHz <sup>2</sup>
Audio Response	+1 ~ -3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+2™ or SELP
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)
American Military Standard	MIL-STD-810 C/D/E/F/G
Dustproof & Waterproof	IP54
Humidity	
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G

GPS	
Accuracy specs are for long-term tracking (5 satellites visible at nominal -130dBm)	
TTFF (Time To First Fix) Cold Start	<1 minute
TTFF (Time To First Fix) Hot Start	<10 seconds
Horizontal Accuracy	<5m (50% probable); <10m (95% probable)

All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.



# MD78Xi Series

## The Powerful Digital Mobile Two-way Radio

- Excellent voice transmission
- Large Colorful Display with High Visibility
- Remote Control Head

Full Duplex Call/ Single Frequency Repeater



**Hytera Communications Corporation Limited**  
Stock Code: 002583.SZ

**Address:** Hytera Tower, Shenzhen Hi-Tech Industrial Park North, Beihuan RD.9108#, Nanshan District, Shenzhen, P.R.C.

**Tel:** +86-755-2697 2999 **Fax:** +86-755-8613 7139 **Post:** 518057

**Http:** //www.hytera.com **marketing@hytera.com**



Hytera retains right to change the product design and specification. Should any printing mistake occur, Hytera doesn't bear relevant responsibility. Little difference between real product and product indicated by printing materials will occur by printing reason.

HYT, Hytera are registered trademarks of Hytera Communications Corp., Ltd.  
©2019 Hytera Communications Corp., Ltd. All Rights Reserved.



# MD78Xi Series

As a product built to the DMR standard, MD78Xi Series is endowed with ergonomic design, all-round digital functions and remarkable quality. These features improve your management efficiency and enable you to be responsive to emergent efficiency. The MD78Xi Series is the ideal solution

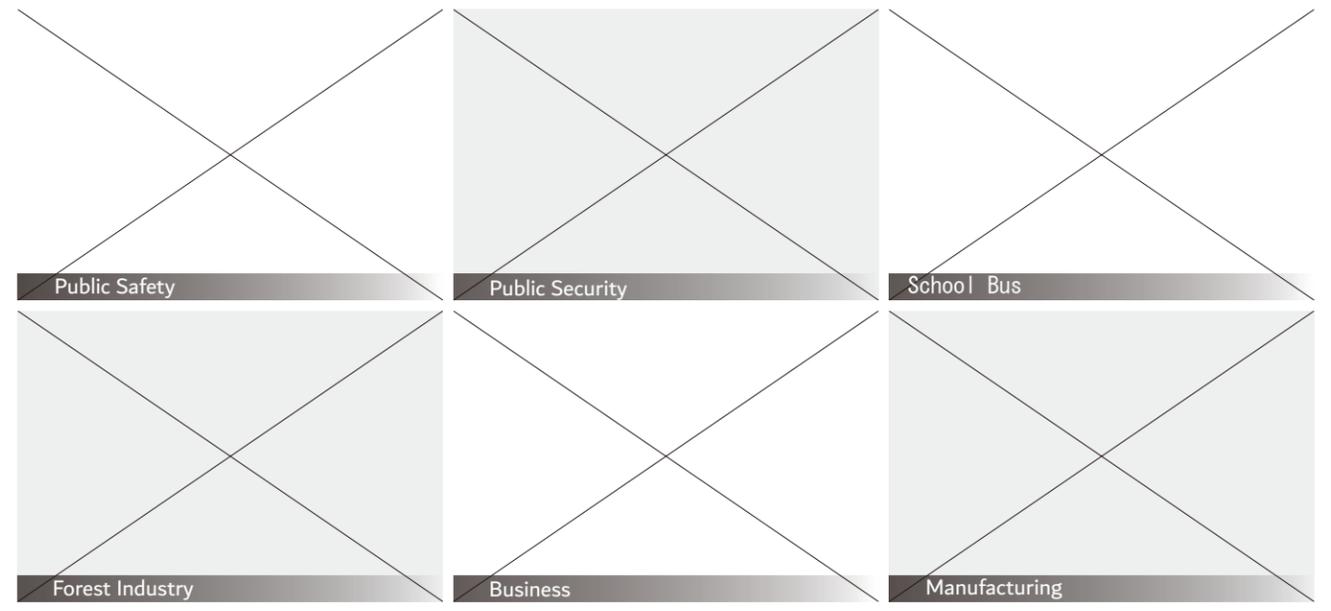


## PROFESSIONAL AND SIMPLE TO USE

- 
**User Friendly**  
 The large colorful display offers a clear display even under strong sunlight. The large keyboard and seven ergonomic
- 
**Smooth Migration**  
 The MD78Xi Series can operate in analogue and digital modes, ensuring a smooth and seamless migration between
- 
**Reliable & Durable**  
 MD78Xi Series is strictly compliant with MIL-STD-810 C/D/E/F/G and IP54 standards, ensuring outstanding
- 
**Single Frequency Repeater Mode (Optional)\***  
 When SFR is enabled, MD78Xi use one slot to receive voice and data, and forwards them on the other, extending the
- 
**Remote Control Head**  
 The remote control kit offers you great flexibility. You can install the control console and the main units at separate
- 
**Analog Signaling**  
 MD78Xi Series support DTMF, 5 tone, HDC1200 and 2 tone
- 
**Full Duplex Call (Optional)\***  
 Hytera MD78Xi can make full duplex calls with PD98X,
- 
**Secure Communication**  
 MD78Xi Series support basic and advanced encryption technology, which provides a high security protection for
- 
**Telemetry**  
 Telemetry is helpful for real-time remote monitor. It is used to check the device running status and control devices if
- 
**Roaming**  
 MD78Xi Series support automatic roaming among all sites
- 
**Positioning**  
 With the positioning chipset, MD78Xi uploads its location
- 
**Text Message**  
 This feature is useful for communication of sensitive information and in noisy environment where it is hard to hear the voice clearly.
- 
**Enlarge Communication Range**  
 With 50W transmit power output and higher RX sensitivity, MD78Xi Series enlarge the communication range to reduce
- 
**Back To Back Solution**  
 The back to back solution achieves cross-band communication between analog and digital modes. With a

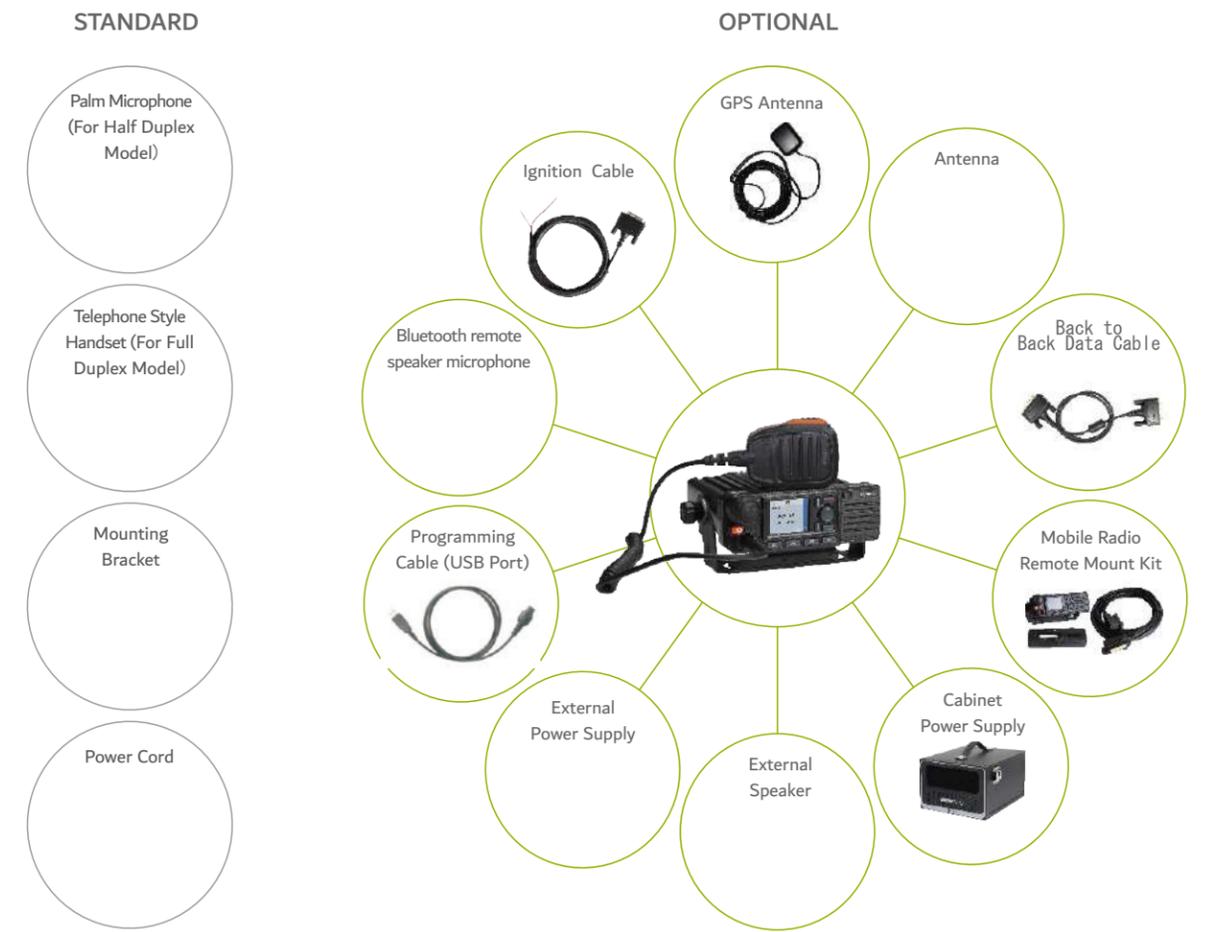
\* Currently, only UHF1(400-470MHz) model supports SFR and full duplex call feature.

## VERTICAL MARKETS



## ACCESSORIES

Diverse accessories for specific tasks



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