

X1 Series

Executive Digital Portable Radio



- Slim Design for User Comfort and Covert Applications
- Built-in GPS, Bluetooth, and Man-Down Features



X1 Series

The X1 Series is built to the DMR Standard and is rich in features for both voice and data communication. The design is approved to rigorous IP67 and MIL-STD 810 testing. The Hytera-patented pseudo-trunking maximizes channel usage. Key features such as man down, vibration, a dedicated emergency button, and the large color display make this an ideal solution for mission critical communications. The radio's slim size enables a user to carry it covertly in a pocket or belt clip. The X1 Series also comes standard with a GPS chip that allows the radio to integrate with Hytera SmartDispatch or other 3rd party GPS dispatching software.

Applications

Security

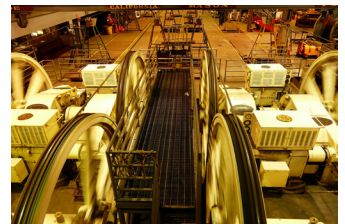
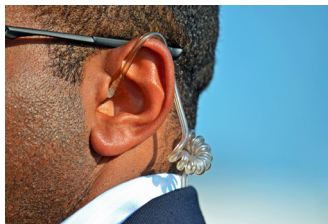
Business

Public Safety

Utilities

Manufacturing

Forestry



Product Features

- Ease of Use**
 Easy to use with the rugged body as thin as 18mm, professional wireless headsets or collar microphone, palm controller and flexible antenna.
- Rugged & Reliable**
 Complies with MIL-STD-810 C/D/E/F/G standards and passes HALT (Highly Accelerated Life Test).
- Large Color Display**
 X1p has a 1.8" TFT LCD display (65536 colors), allowing good visibility even in strong sunlight and the ability to view 4 lines of status messages.
- Advanced Signaling**
 Supports multiple advanced analog signaling modes, including HDC1200, 2-Tone and 5-Tone, providing better integration into existing analog radio fleets.
- Secure Communication**
 Besides the encryption inherent to digital technology, The X1 Series radios provide enhanced encryption capabilities (such as 256-bit dynamic encryption and Advanced Encryption Standard, AES encryption algorithm).
- Dual Mode: Analog & Digital**
 Dual mode (analog & digital) operation ensures a smooth analog to digital migration.
- Versatile Voice Calls**
 The intelligent signaling of the X1 Series radios support various voice call types, including Private Call, Group Call, All Call and Emergency Call.
- Bluetooth**
 X1 Series Radios can connect to Bluetooth to earpieces using the Hytera wireless PTT Accessory.
- Expansion Ports**
 This allows third parties to develop accessory and applications via front and rear port of the mobile.
- GPS Positioning**
 Supports viewing of GPS positioning information and sending of GPS text message.
- Vibration**
 Vibration alerts the user of voice calls and text messages.
- Software Upgradeable**
 Upgradeable software enables new features without buying a new radio; X1 Series radios can also be switched into DMR trunking modes with corresponding trunking license applied in the same hardware.
- IP67 Protection**
 The Ingress Protection reaches IP67 (6: Totally protected against dust; 7: Protected against the effects of immersion up to 1m for 30 minutes). It's the highest IP level for land-based wireless radio application.



Accessories

- Included**
- Li-Ion Battery
 - MCU Rapid-rate Charger
 - Power Adapter
 - Antenna

Optional



Detachable Earpiece with Transparent Acoustic Tube
EHN22



Carrying Case
Belt Clip
PCN005



Programming Cable
(USB Port)
PC45



Wireless
Push To Talk
POA47

See website for full list

Specifications

General	Frequency Range	VHF: 136 - 174MHz; UHF1: 400 - 470MHz UHF2: 450-520MHz; UHF3: 350 - 400MHz UHF5: 806-941MHz (only for DMR Trunking)	
	Channel Capacity	X1e	48
		X1p	1024
	Zone Capacity (each with a maximum of 16 channels)	X1e	3
		X1p	64
	Channel Spacing	25 / 20 / 12.5KHz	
	Operating Voltage	7.4V (rated)	
	Battery	1800mAh (Li-Ion)	
	Battery Life (5-5-90 Duty Cycle, High TX Power)	Analog	Approx. 11hrs
		Digital	Approx. 15hrs
	Frequency Stability	± 0.5ppm	
	Antenna Impedance	50 Ω	
	Dimensions (HxWxD)	X1e	4.7 x 2.24 x 1.02 inches
		X1p	4.7 x 2.24 x 0.91 inches
	Weight	X1e	9.17 oz
X1p		9.88 oz	
LCD (X1p)	160 x 128 pixels, 65536 colors, 1.8in, 4 rows		
FCC ID	See website for full list		
Industry Canada ID	See website for full list		

Environmental Specs	Operating Temperature	-22° F ~ +140° F
	Storage Temperature	-40° F ~ +185° F
	ESD	IEC 61000 - 4 - 2 (level 4) ± 8kV(contact); ± 15kV (air)
	American Military Standard	MIL-STD-810 C/D/E/F/G
	Dust & Water Intrusion	IP67 Standard
	Humidity	Per MIL-STD-810 C/D/E/F/G Standard
	Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

GPS	TTFF (Time To First Fix) Cold Start	<1 minute
	TTFF (Time To First Fix) Hot Start	<10 seconds
	Horizontal Accuracy	<10 meters

Transmitter	RF Power Output	VHF: Low 1W - High 5W; UHF1,2,3: Low 1W - High 4W; UHF5: Low 1W - High 3W
	FM Modulation (Analog Emissions Designator)	11K f F3E @ 12.5KHz; 14Kf F3E @ 20KHz; 16Kf F3E @ 25KHz
	4FSK Digital Modulation (Digital Emissions Designator)	12.5KHz Data Only: 7K6f FXD 12.5KHz Data & Voice: 7K6f FXW
	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 @ 20KHz; 45dB @ 25KHz
	Adjacent Channel Power	60dB @ 12.5KHz 70dB @ 20/25KHz
	Audio Response	+1 ~ -3dB
	Audio Distortion	≤ 3%
	Digital Vocoder Type	AMBE++ or SELP
Digital Protocol	ETSI-TS102 361-1, 2&3	

Receiver	Sensitivity	Analog	0.3 mV (12dB SINAD); 0.22 mV (Typical) (12dB SINAD); 0.4 mV (20dB SINAD)
		Digital	0.3 mV/BER5%
	Selectivity TIA-603 ETSI	60dB @ 12.5KHz / 75dB @ 20/25KHz 60dB @ 12.5KHz / 70dB @ 20/25KHz	
	Intermodulation TIA-603 ETSI	70dB @ 12.5/20/25KHz 65dB @ 12.5/20/25KHz	
	Spurious Response Rejection TIA-603 ETSI	70dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz	
	Blocking TIA-603 ETSI	80dB 84dB	
	S/N	40dB @ 12.5KHz; 43dB @ 20KHz; 45dB @ 25KHz	
	Rated Audio Power Output	0.5W	
	Rated Audio Distortion	≤ 3%	
	Audio Response	+1 ~ -3dB	
Conducted Spurious Emission	< -57dBm		

Your Local Dealer



Hytera reserves the right to change product designs or specifications at any time. If you have any questions regarding the accuracy of this information please contact your local sales representative or Hytera directly.

HYT, Hytera are registered trademarks of Hytera Co., Ltd. © 2013 Hytera Co., Ltd. All rights reserved.



Hytera Communications (Canada) Inc.

Address: 100 Leek Crescent, Unit 11

Richmond Hill, Ontario L4B 3E6

Tel: (905) 305-7545

http://www.hytera.ca http://www.hytera.us

Hytera
Respond & Achieve