

X1 Series Executive Digital Portable Radio





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

| Image: Comparison of the Comparison of the

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



Detachable Earpiece with Transparent Acoustic Tube EHN22



Carrying Case Belt Clip PCN005



Programming Cable (USB Port) PC45



Wireless Push To Talk POA47

Specifications

	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-lon)		
<u>.</u>	Battery Life (5-5-90 Duty Cycle, High TX Power)	Analog	Approx. 11hrs		
פחפום		Digital	Approx. 15hrs		
Ŭ	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			
	Operating Temperature		-22° F ∼ +140° F		
ָרָ ע	Storage Temperature	-40° F∼ +185° F			
Environmental Sp	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		

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	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)	11К фF3E @ 12.5KHz ; 14КфF3E @ 20KHz ; 16КфF3E @ 25KHz	
	4FSK Digital Modulation (Digital Emissions Designator)	12.5KHz Data Only: 7К6фFXD 12.5KHz Data & Voice: 7К6фFXW	
	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 μ V (12dB SINAD) ; 0.22 μ V (Typical) (12dB SINAD); 0.4 μ V (20dB SINAD)	
		Digital	0.3 μ V/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		

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