

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

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				
Channel Capacity		Frequency Range	UHF2: 450-520MHz; UHF3: 350 - 400MHz	
Name		Channel Capacity	X1e	32
Cane Capacity (each with a maximum of 16 channels)			X1p	1024
Channel Spacing 25 / 20 / 12 5KHz			X1e	3
Page 1990 Pag			X1p	64
Battery 1800mAh (LI-Ion) Analog Approx. 11hrs		Channel Spacing	25 / 20 / 12.5KHz	
Sattery Life (5-5-90 Duty Cycle, High TX Power) Digital Approx. 11hrs		Operating Voltage	7.4V (rated)	
Battery Life (5-5-90 Duty Cycle, High TX Power) Digital Approx. 15hrs		Battery	1800mAh (Li-lon)	
Frequency Stability	<u>la</u>		Analog	Approx. 11hrs
Frequency Stability	Gener		Digital	Approx. 15hrs
X1e		Frequency Stability	±0.5ppm	
Dimensions (HxWxD) X1p 4.7 x 2.24 x 0.91 inches 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 Operating Temperature -22°F ~ +140°F Storage Temperature -40°F ~ +185°F IEC 61000 - 4 - 2 (level 4) ± 8kV(contact); ± 15kV (air) American Military Standard MIL-STD-810 C/D/E/F/G Dust & Water Intrusion Humidity Per MIL-STD-810 C/D/E/F/G Standard TTFF (Time To First Fix) Cold Start < 1 minute <10 seconds		Antenna Impedance	50 Ω	
X1p		Dimensions	X1e	4.7 x 2.24 x 1.02 inches
Veight X1p 9.88 oz			X1p	4.7 x 2.24 x 0.91 inches
LCD (X1p) 160 x 128 pixels, 65536 colors, 1.8 in, 4 rows FCC ID See website for full list Industry Canada ID 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 TTFF (Time To First Fix) Cold Start < 1 minute TTFF (Time To First Fix) Hot Start < 10 seconds		Weight	X1e	9.17 oz
See website for full list			X1p	9.88 oz
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 TTFF (Time To First Fix) Cold Start -10 seconds		LCD (X1p)	160 x 128 pixels, 65536 colors, 1.8in, 4 rows	
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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 TTFF (Time To First Fix) Cold Start < 1 minute TTFF (Time To First Fix) Hot Start < 10 seconds		Industry Canada ID	See website for full list	
ESD IEC 61000 - 4 - 2 (level 4)		Operating Temperature	-22°F ~ +140°F	
### ### ##############################	S	Storage Temperature	-40° F∼ +185° F	
Shock & Vibration Per MIL-STD-810 C/D/E/F/G Standard TTFF (Time To First Fix) Cold Start <1 minute TTFF (Time To First Fix) Hot Start <10 seconds	al Spe	ESD		
Shock & Vibration Per MIL-STD-810 C/D/E/F/G Standard TTFF (Time To First Fix) Cold Start <1 minute TTFF (Time To First Fix) Hot Start <10 seconds	enta	American Military Standard		
Shock & Vibration Per MIL-STD-810 C/D/E/F/G Standard TTFF (Time To First Fix) Cold Start <1 minute TTFF (Time To First Fix) Hot Start <10 seconds	Environm	Dust & Water Intrusion	IP67 Standard	
TTFF (Time To First Fix) Cold Start <1 minute TTFF (Time To First Fix) Hot Start <10 seconds		Humidity	Per MIL-STD-810 C/D/E/F/G Standard	
TTFF (Time To First Fix) Hot Start <10 seconds		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		Horizontal Accuracy	<10 meters	

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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
TTFF (Time To First Fix) Cold Start	<1 minute
TTFF (Time To First Fix) Hot Start	<10 seconds

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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)	11K фF3E @ 12.5KHz ; 14KфF3E @ 20KHz ; 16KфF3E @ 25KHz	
	4FSK Digital Modulation (Digital Emissions Designator)	12.5KHz Data Only: 7K6φFXD 12.5KHz Data & Voice: 7K6φFXW	
	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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