





PD70X/70XG

Higher Efficiency, Richer Experience As a product built to the DMR standard, PD70X/70XG (PD70XG is the model with GPS) is endowed with ergonomic design, all-round digital functions and remarkable quality. These features improve your experience and enable you to be responsive to emergent situations.

Applications

Public Safety Forest Industry Public Utility Business Transportation (port, airport, railway, etc.)
Manufacturing



Product Highlights

• Ergonomic Design

The globally patented industrial and antenna design ensure convenient operation and remarkable GPS performance.

Reliable Quality

PD70X/70XG is strictly compliant with MIL-STD-810 C/D/E/F/G and IP67 standards, ensuring outstanding performance even in harsh environments.

Superior Voice

With narrowband codec and digital error-correction technologies, PD70X/70XG delivers superior voice under noisy environments.

The AGC technology maintains a suitable voice volume,

and the built-in 1W speaker further ensures clear and crisp voice.

Durable Battery

Compared with an analog radio, PD70X/70XG can obtain an extra 40% operation time.

Dual-slot Pseudo Trunk

The free slot can be allocated to enhance frequency efficiency and timely response under emergency.

Secure Communication

PD70X/70XG provides advanced encryption (such as 256-bit encryption algorithm) and scrambler features to secure communication.

Versatile Services

In addition to voice services, PD70X/70XG offers data services and selectable features, such as Text Message, Scan, Emergency, Man Down (optional), Vibration, Auto Registration, High-speed Data Transmission, Lone Worker etc.

Secondary Development

The third party partner can develop applications via accessory port to extend radio functionality.

Option Board Interface

PD70X/70XG supports option board interface. This allows third party partner to develop various applications to interconnect with the radio. They could control the radio to expand its functionalities including voice recording, encryption etc. Please refer to the API Partner Programmed for more information.

Features

Dual Modes (Analog+Digital)

PD70X/70XG can operate in either analog or digital mode. It is compatible with the prevalent analog system, ensuring a smooth analog-to-digital transition.

Versatile Voice Calls

PD70X/70XG supports various voice call types, including Private Call, Group Call, All Call and Emergency Call.

Various Analog Signaling Types

 $\label{eq:pdf} PD70X/70XG \ supports \ various \ analog \ signals \ (HDC1200, DTMF \ phone, 2-Tone \ and 5-Tone), various \ squelch \ signals \ (CTCSS/CDCSS), \ providing$

higher expansion capacity to the analog system. One Touch

PD70X/70XG supports One Touch features to transmit text message, voice calls and supplementary services.

Scar

PD70X/70XG supports scanning of pure Analog voice and signaling, pure Digital voice and data, and also mix mode scan that comprise of Analog and Digital activities.

Roaming

PD70X/70XG supports automatic roaming among all sites in a IP Multi-site Connect system.

Voice and Data Safety

PD70X/70XG supports analog scrambling, and digital encryption using Advanced Encryption Standard (AES) and ARCFOUR (ARC4) encryption methodology to

secure both voice and data services. • Analog/Digital Telephone Interconnect (via DTMF signaling)

PD70X/70XG supports simplex voice communications between radio and telephone users. It allows a radio user to make a telephone call; or a telephone user to make either a Group or Private call to radio users.

Software Upgradable

New features can be enabled via software upgrade. Moreover, PD70X/70XG can switch to DMR or MPT trunking mode through license.

Standard Accessories

Li-Ion Battery Power Adapter MCU Rapid-rate Charger Belt Clip Leather Strap Antenna

Specifications

896-902MHz(TX only) 935-941MHz(TX&RX)

	Frequency Range		UHF1: 400-470MHz UHF2: 4: UHF3: 350-400MHz	50-520MHz
			VHF1:136-174MHz VHF3:210-270MHz	
	Channel Capacity		1024	
	Zone Capacity		16	
	Channel Spacing		12.5kHz / 20kHz / 25kHz	
	Operating Voltage		7.4V (rated)	
G	Battery		2000mAh(Li-Ion)(Standard) 25	00mAh(Li-Ion)(Optional)
General	Battery Life		Digital:	Analog:
	(5-5-90 Duty Cycle, High TX Power)		20 Hours	15.5 Hours
	Frequency Stability		±0.5ppm	
			50Ω	
	Antenna Impedance Dimensions (H×W×D) (with standard battery,		125 x 55 x 35 mm	
	Withistandard battery,			
	(with antenna & standard battery)		335g	
	Sensitivity	Analog	0.22µV (12dB SINAD) 0.18µV (Typical) (12dB SINAD)	
		Digital	0.22µV /BER5%	
	Selectivity		60dB @ 12.5kHz / 70dB @ 20	0/25kHz
	TIA-603		60dB @ 12.5kHz / 70dB @ 20	0/25kHz
	Ent€ modulation		70dB @ 12.5/20/25kHz	
	TIA-603		65dB @ 12.5/20/25kHz	
<u>,</u>	ቼቮჽ⊭ious Response Rejection		70dB @ 12.5/20/25kHz	
Receiver	TIA-603		70dB @ 12.5/20/25kHz	
ver	ETSI Hum and Noise		40dB @ 12.5kHz; 43dB @ 20k	кНz;
			45dB @ 25kHz	
	Rated Audio Power Output		0.5W	Horizonta
	Rated Audio Distortion		≤3%	
	Audio Response		+1 ~ -3dB	
	Conducted Spurious Emission		< -57dBm	

	RF Power Output	UHF1/UHF2/UHF3: 1W/4W UHF5:1W/3W(806-870MHz) UHF5:1W/2.5W(896-941MHZ) VHF: 1W/5W
	FM Modulation	11K0F3E @ 12.5kHz; 14K0F3E @ 20kHz 16K0F3E @ 25kHz
Ħ	4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data & Voice: 7K60FXW
ans	Conducted/Radiated Emission	-36dBm≤1GHz; -30dBm>1GHz
Transmitter	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+2™,SELP
	Digital Protocol	ETSI-TS102 361-1,-2,-3
97	Operating Temperature	-30°C ~ +60°C
viror	Storage Temperature	-40°C ~ +85°C
Environmental Specifications	ESD	IEC 61000-4-2 (level 4) ±8kV (contact) ±15kV (air)
l Sp	American Military Standard	MIL-STD-810 C/D/E/F/G
ecific	Dust & Water Protection	IP67
catio	Humidity	Per MIL-STD-810 C/D/E/F/G
ns	Shock & Vibration	Per MIL-STD-810 C/D/E/F/G

		Accuracy specs are for long-term tracking (5 satellites visible at nominal -130dBm)		
	(For PD	TTFF (Time To First Fix) Cold Start		
	GPS D70XG	TTFF (Time To First Fix) Hot Start	<10 seconds	
	e On On On On On On On On On On On On On	cy	<5 meters	

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

Optional Accessories



SM18N2



EHN16



Swivel Earset EHN17





Earbud ESN12



3-Wire Surveillance Acoustic Tube (beige)



Receive-only Earpiece Carrying Case (for thick Programming Cable EAS03



battery) (leather) (swivel) LCY003



(USB Port) PC38



Li-Ion Battery BL2503



Battery Optimizing System MCA05



MCA08



MCU Multi-unit Charger 3-wire Surveillance (for Thick Battery) Earpiece with Transparent Wireless Earphone and Acoustic Tube(Black) EAN18



2-wire Earpiece with Neck Loop(Beige) EWN09



FSS10

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











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