Specifications

אף	CCIIIC	Lations		
	Frequences		UHF1: 400-470MHz; UHF2: 450-520MHz UHF3: 350-400MHz; VHF: 136-174MHz	
	Channel Capacity		1024	
	Zone Capacity		64(each with a maximum of 16 channels)	
	Channel Spacing		12.5 KHz / 20 KHz / 25 KHz	
	Operating Voltage		7.4V (rated)	
	Battery		2000mAh (Li-lon)	
General	Battery Life (5-5-90 Duty Cycle, High TX Power) High-capacity 2000mAh Li-lon Battery		Analog: UHF1: 13.5 h 12 h (G)	
	Frequency Stability		± 1.5ppm	
	Antenna Impedance		50 Ω	
	Dimensions (H × W × D) (with standard battery, without antenna)		125 X 55 X 37mm (4.9X2.2X1.5inch)	
	Weight (with antenna & standard battery)		355g (12.5oz)	
	LCD Display		160 × 128 pixels, 65535 colors 1.8 inch, 4 rows	
	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 @ 12.5 kHz / 70dB @ 20/25 kHz 60dB @ 12.5 kHz / 70dB @ 20/25 kHz	
	Intermodulation TIA-603 ETSI		70dB @ 12.5/20/25 kHz 65dB @ 12.5/20/25 kHz	
Receiver	Spurious Response Rejection TIA-603 ETSI		70dB @ 12.5/20/25 kHz 70dB @ 12.5/20/25 kHz	
Ver	Blocking TIA-603		80dB 84dB	
	Hum and Noise		-40dB @ 12.5 kHz;-43dB @ 20KHz; -45dB @ 25 kHz	
	Rated Audio Power Output		0.5W	
	Rated Audio Distortion		≤3%	
	Audio Response		+1 ~ -3dB	
	Conducted Spurious Emission		< -57 dBm	

Transmitter	RF Power Output	UHF1/UHF2/UHF3 High Power: 4W UHF1/UHF2/UHF3 Low Power: 1W VHF High Power: 5W; VHF Low Power: 1W		
	FM Modulation	11K0F3E @ 12.5 kHz; 14K0F3E @ 20 kHz 16K0F3E @ 25 kHz		
	4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data & Voice: 7K60FXW		
	Conducted/Radiated Emission	-36dBm<1GHz; -30dBm>1GHz		
	Modulation Limiting	± 2.5kHz @ 12.5 kHz; ± 4.0kHz @ 20 kHz; ± 5.0kHz @ 25 kHz		
	FM Hum & Noise	-40dB @ 12.5 kHz; -43dB @ 20KHz; -45dB @ 25 kHz		
	Adjacent Channel Power	60dB @ 12.5 kHz; 70dB @ 20/25 kHz		
ĺ	Audio Response	+1 ~ -3dB		
	Audio Distortion	≤3%		
	Digital Vocoder Type	AMBE++or SELP		
	Digital Protocol	ETSI-TS102 361-1,-2,-3		
Environmental Specifications	Operating Temperature	-30℃ ~ +60℃		
	Storage Temperature	-40℃~+85℃		
	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		
snc	Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard		

(For	Accuracy specs are for long-term tracking(95th percentile values>5 satellites visible at a nominal -130dBm signal strength)			
GPS PD788G	TTFF (Time To First Fix) Cold Start	<1 minute		
0.588 S.	TTFF (Time To First Fix) Hot Start	<10 seconds		
only)	Horizontal Accuracy	<10 meters		

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

Standard Accessories

Li-lon	Battery	MCU Rapid-rate Charger	Leather Strap
Powe	r Adapter	Belt Clip	Antenna

Optional Accessories



Microphone (IP57) PTT & Transparent





On-MIC PTT





Earpiece with Transparent

Acoustic Tube (beige) EAN17





Switching Powe



battery) (leather) (swivel)





Li-Ion Battery

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













Address: HYT Tower, Hi-Tech Industrial Park North, Beihuan Rd., Nanshan District. Shenzhen, China Tel:+86-755-2697 2999 Fax:+86-755-8613 7139 Post: 518057 Http://www.hytera.com

Hytera retains right to change the product design and specification. Should any printing mistake occur by printing materials will occur by printing reason.

HYT, Hytera are registered trademarks of Hytera Co., Ltd. © 2011 Hytera Co., Ltd. All Rights Res





PD788/788G

Versatile Digital Portable Two-Way Radio

- Large-size HD Transflective Color Display
- Superior Digital Voice





Hytera

Digital channel 1

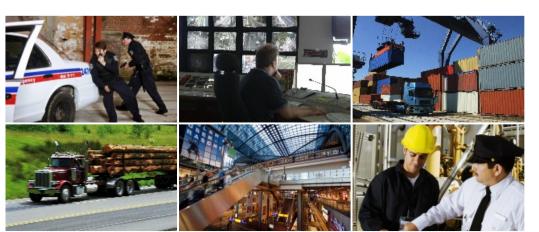


PD788/788G Higher Efficiency, Richer Experience

As a product built to the DMR standard, PD788/788G (PD788G is the model with GPS) is endowed with ergonomic design, all-round digital functions and remarkable quality to increase your management efficiency and enable you to be responsive to emergent situations.

Applications

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



Product Features

Ergonomic Design

The large-size color display allows good visibility even under extremely strong light. The globally patented industrial design and antenna design ensure convenient operation and remarkable GPS performance.

Reliable Quality

PD788/788G 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 the combined application of narrowband codec and digital errorcorrection technologies, PD788/788G is capable of ensuring you superior voice in noisy environments or at the edge of the coverage area. In addition, the adoption of the AGC technology also optimizes your voice. With a builtin 1W speaker, PD788/788G ensures clear and crisp voice communication.

Durable Battery

Compared with an analog radio, PD788/788G can obtain an extra 40% operation time.

Higher Spectrum Efficiency, Higher Channel Capacity
 Benefiting from the TDMA technology, PD788/788G allows twice the channels
 based on the same spectrum resource. This is a big help to relieve the stress of increasing shortage in spectrum resource.

Dual-slot PseudoTrunk

With this feature, the free slot can be allocated to a member that needs to communicate, effectively enhancing frequency efficiency and allowing you to communicate timely under emergency situations.

Secure Communication

Besides the intrinsic encryption of the digital technology, PD788/788G provides enhanced encryption capability (such as 256-bit encryption algorithm) and the Scrambler feature (selectable).

Versatile Services

In addition to conventional communication services, PD788/788G features rich data services and selectable functions such as Text Message, Scan, Emergency, Man Down (optional), vibration Auto Registration, High-speed Data Transmission* and Lone Worker.

Further Development Port

The reserved side port in PD788/788G allows users or any third party partner to further develop other helpful applications to extend the radio functionalities!

Option Board Interface

PD788/788G supports option board interfaces to radio, allowing third party partner to develop various applications to interconnect with radios to control the radio to expand its functionalities! Among the supported features are voice recording, encryption* etc. Please refer to the API Partner Programmed for more information!

Main Functions

Dual Modes (Analog+Digital)

PD788/788G 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

Intelligent signaling of PD788/788G supports various voice call types, including Private Call, Group Call, All Call and Emergency Call.

GPS

PD788G supports viewing of GPS positioning information and sending of GPS text message.

Data Services

PD788/788G supports data capabilities of sending Private, Group text message. It also supports Third Party to control the radio via Third party API (GPS, Radio Registration Services, Radio and Call Control, Telemetry*, DataTransfer*), via Telemetry control to radio.

Various Analog Signaling Types

PD788/788G supports various analog signaling types (HDC1200, DTMF*, 2-Tone and 5-Tone), various squelch control types (CTCSS/CDCSS), thus providing higher function expansion capacity to the analog world.

Supplementary Services

PD788/788G supports supplementary services of Radio Check, Remote Monitor, Call Alert, Radio Enable and Radio Disable.

Multiple Languages

PD788/788G supports 11 languages (English, Simplified Chinese, Traditional Chinese, German, Spanish, French, Italian, Polish, Russian, Turkish and Korean), allowing users to select it per their needs.

One Toucl

PD788/788G supports One Touch features that comprise of Text Message, Voice Calls and Supplementary Services.

Scan

PD788/788G 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

PD788/788G supports automatic roaming of all sites in a IP Multi-site Connect system.

Privacy of Voice and Data

PD788/788G supports Analog scrambling, and digital encryption using Advanced Encryption Standard (AES) and ARCFOUR (ARC4) encryption methodology to both voice and data.

Analog/Digital Telephone Interconnect (via DTMF signaling) PD788/788G 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. This feature utilizes the Commercial Off The Shelf (COTS) Analog Phone Patch boxes and a Plain Old Telephone Service (POTS) line to connect the radio users to the Corporate Office

Phone System (PBX) or Public Switched Telephone Network (PSTN).

Software Upgradable

With this capability, you can enjoy firmware upgrade without purchasing a new piece of radio hardware!

* indicates functions available in later version.