Standard Accessories

Optional Accessories

















Specifications

General						
Frequency Range	VHF: 136-174MHz UHF1: 400-470MHz UHF3: 350-400MHz					
Channel Capacity	1024					
Zone Capacity	64 (each with a maximum of 16 channels)					
Channel Spacing	25 /20/12,5 KHz					
Operating Voltage	7.4V (rated)					
Battery	2000mAh(Li-lon)					
attery Life (5-5-90 Duty Cycle, HighTX Power) High-capacity 2000mAh Li-lon Battery	Analog: Above 10.5 Hours Digital: Above 14 Hours					
Frequency Stability	± 1.5ppm					
Antenna Impedance	50Ω					
Dimensions (H×W×D) (with standard battery, without antenna)	125×55×37 mm /4.921×2.165×1.458 inch					
Weight (withantenna &standard battery)	355g /0.78lb					
Front Case	PC					
LCD Display	160×128 pixels, 65536 colors 1.8 inch, 4 rows					

Antenna impedance	2077					
Dimensions (H×W×D) (with standard battery, without antenna)	125×55×37 mm /4.921×2.165×1.458 inch					
Weight (withantenna &standard battery)	355g /0.78lb					
Front Case	PC					
LCD Display	160×128 pixels, 65536 colors 1.8 inch, 4 rows					
	Receiver					
Sensitivity (Analog)	0.3 μ V (12dB SINAD) 0.22IV (Typical) (12dB SINAD) 0.4 μ V (20dB SINAD)					
Sensitivity (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					
Spurious Response Rejection TIA-603 ETSI	70dB @ 12.5/20/25 kHz 70dB @ 12.5/20/25 kHz					
S/N	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz					
Rated Audio Power Output	0.5W					
Rated Audio Distortion	≤3%					
Audio Response	+1~-3dB					
Conducted Spurious Emission	<–57 dBm					
GPS (For PD786Gonly)						
TTFF (Time To FirstFix) Cold Start						
TTFF (Time To FirstFix) Hot Start	<10 seconds					
Horizontal Accuracy	<10 meters					

Hansilittei								
RF Power Output	VHF High Power:5W VHF Low Power:1W UHF1/UHF3 High Power:4W UHF1/UHF3 Low Power:1W							
FM Modulation	11K							
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data & Voice: 7K60FXW							
	-36dBm<1GHz -30dBm>1GHz							
Modulation Limiting	± 2.5kHz @ 12.5 kHz ± 4.0kHz @ 20 kHz ± 5.0kHz @ 25 kHz							
FM Noise	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz							
Adjacent Channel Power	60dB @ 12,5 kHz 70dB @ 20/25kHz							
Audio Response	+1 ~ –3dB							
Audio Distortion	≤3 %							
Digital Vocoder Type	AMBE++ or SELP							
Digital Protocol	ETSI-TS102 361-1, 2&3							
Environmental Specifications								

Environmental Specifications						
Operating Temperature	–30°C ~ +60°C					
Operating Temperature	–40℃ ~ +85℃					
ESD	IEC 61000-4-2 (level 4) 8kV (contact) 15kV (air)					
American Military Standard	MIL-STD-810 C/D/E/F					
Dust & Water Intrusion	IP57 Standard					
Humidity	Per MIL-STD-810 C/D/E/F Standard					
Shock & Vibration	Per MIL-STD-810 C/D/E/F Standard					

Applicable Military Standards

			810D		810E		810F	
Low Pressure	500.1	1	500.2	1,11	500.3	I, II	500.4	П
ligh Temperature	501.1	I, II	501.2	I, II	501.3	I, II	501.4	1, 11
owTemperature	502.1	1	502.2	1,11	502.3	1, 11	502.4	1,11
emperature Shock	503.1	1	503.2	1	503.3		503.4	1
Solar Radiation	505.1	1	505.2	1	505.3	1	505.4	1
	506.1		506.2		506.3	I, II	506.4	I, II
Humidity	507.1	H	507.2	II, III	507.3	II, III	507.4	
	509.1		509.2		509.3		509.4	
Sand & Dust	510.1	1	510.2	1	510.3	1	510.4	1
Vibration	514.2	VIII, X	514.3		514.4		514.5	1/24
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV





www.hytera.cn

Hytera Communications Corporation Limited

HYT is a registered trademark of Hytera

© 2010 Hytera, Co., Ltd. All Rights Reserved.

Address: HYT Tower, Hi-Tech Industrial Park North, Beihuan RD., Nanshan Tel: +86-755-2697 2999 Fax: +86-755-8613 7139 Post: 518057







PD786/PD786G

Versatile Digital Portable Two-Way Radio

As a product built to the DMR standard, PD786/786G (PD786G is the model with GPS) is endowedwith ergonomic design, allround digital functions and remarkable quality to refresh your experience and enable you to be responsive to emergent situations.



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











Product Features)



Ergonomic Design

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

Reliable Quality

PD786/786G is strictly compliant with MIL-STD-810 C/D/E/F and IP57 standards, ensuring outstanding performance even under harsh environments.

Superior Voice

With the combined application of narrowband codec and digital errorcorrection technologies, PD786/786G is capable of ensuring you superior voice under noisy environments or at the edge of the coverage area. In addition, the adoption of the AGC technology also optimizes your voice. With a built-in 1W speaker, PD786/786G ensures clear and crisp voice communication.



Durable Battery

Compared with an analog radio. PD786/786G can obtain an extra 40% operation time.

Higher Spectrum Efficiency, Higher Channel Capacity

Benefiting from the TDMA technology, PD786/786G 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 Pseudo Trunking

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 emergent situations.



Secure Communication

Besides the intrinsic encryption of the digital technology, PD786/786G provides enhanced encryption capability (such as 256-bit encryption algorithm) and the Scrambler feature (selectable).

Versatile Services

In addition to conventional communication services, PD786/786G features rich data services and selectable functions such as Message, Scan, Emergency, Man Down (optional), Auto Registration*, High-speed Data Transmission* and Lone Worker*

Further Development Port

The reserved port in PD786/786G allows users or any third party to further develop other helpful functions (Message, GPS, Call Control and Telemetry).

Main Functions >>

- Dual Modes (Analog+Digital) PD786/786G 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 PD786/786G supports various voicecall types, including Private Call, Group Call and All Call.
- This feature ishelpful in alerting youto reception of any voice or message under noisy or low-volume conditions

Hytera

Digital channel 1

1!< 2ABC 3DEF

4 GHI 0 5 JKL 0 6 MNO

7 PORS 8 TUV 9 WXYZ

*- 0+ # *****

- - PD786G supports viewing of GPS positioning information and sending of GPS text message.
- IP Service*
- PD786/786G allows multiple IP functions if connected with a PC via IP address.
- Various Analog Signaling Types

Industrial Design Features >>

Two knobs with the antennain the middle facilitate smooth eyes-off

operation.

- PD786/786G supports various analog signaling types (HDC1200, DTMF*, 2-Tone* and 5-Tone*), providing higher function expansion capacity.
- Multiple Languages
- PD786/786G supports 10 languages (English, Simplified Chinese, Traditional Chinese, German, Spanish, French, Italian, Polish, Russian and Turkish), allowing you to select asper your needs.
- ▶ Software Upgradable
- With this capability, you can enjoy further features without buying a new machine.

* indicates functions available in later version.

CONTACT RF INC 315 N SHARY RD **SUITE 1016**

MISSION, TEXAS 78572 Phone (956) 429-3200 ext. 1016

info@rfinctx.com



Integrated GPS antenna



Clear status indication with tri-color LED



Large-sized HD colorLCD display enables youto access your desired information with ease even under bright sunlight.



Compliant with MIL-STD-810 C/D/E/F and IP57 standards



Free of operation fatigue

thanks to dual-color

injection molding

Covert speaker with quality audio and smartlook

^{*} indicates functions available in later version