Accessories













Optional Accessories















Specifications

Specifications ————————————————————————————————————						
General						
Frequency Range	400-470MHz					
	256					
Zone Capacity	32 (each with a maximum of 16 channels)					
Channel Spacing	25 /20 / 12,5 KHz					
Operating Voltage	7.4V (rated)					
Battery	2000mAh (Li-lon)					
Battery Life (5-5-90 Duty Cycle, High TX Power) High-capacity 2000mAh Li-Ion Battery	Analog: Above 10,5 Hours Digital: Above 14 Hours					
Frequency Stability	±1,5ppm					
Antenna Impedance	50Ω					
Dimensions (W*H*L)	119 X 55 X 33mm / 4.69*2.2*1.3 (inch)					
Weight	320g /11,3oz					
Military Standard	MIL-STD-810C/D/E/F					
LCD Display	160*128 pixels, 65535 colors					
Receiver						
Sensitivity (Analog)	0.3µV (12dB SINAD) 0.22µV (Typical) (12dB SINAD) 0.4µV (20dB SINAD)					
0						

Receiver				
Sensitivity (Analog)	0.3µV (12dB SINAD) 0.22µV (Typical) (12dB SINAD) 0.4µV (20dB SINAD)			
Sensitivity (Digital)				
Adjacent Channel Selectivity TIA603 ETSI	60dB @ 12.5 kHz/70dB @ 20/25 kHz 60dB @ 12.5 kHz/70dB @ 20/25 kHz			
Intermodulation TIA603 ETSI	70dB @ 12,5/20/25 kHz 65dB @ 12,5/20/25 kHz			
Spurious Response Rejection TIA603 ETSI	70dB @ 12,5/20/25 kHz 70dB @ 12,5/20/25 kHz			
	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			

Transmitter					
RF Power Output	4W/1W				
FM Modulation	16КФF3E @ 12.5 kHz 14КФF3E @ 20 kHz 11КФF3E @ 25 kHz				
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data & Voice: 7K60FXE				
Spurious and Harmonics	-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 @ 20KHz 45dB @ 25 kHz				
Adjacent Channel Power	60dB @ 12.5 kHz 70dB @ 20/25 kHz				
Audio Response	+1~-3dB				
Audio Distortion	≤3% (Typical)				
Digital Vocoder Type	AMBE++ /SELP				
Digital Protocol	ETSI-TS102 361-1,283				
Environmental Specifications					
Operating Temperature	-30°C ~ +60°C				
Storage Temperature	-40℃ ~ +85℃				
Dust & Water Intrusion	Per MIL-STD-810 C/D/E/F and IP57 Standards				
Shock & Vibration	Per MIL-STD-810 C/D/E/F Standards				
Humidity	Per MIL-STD-810 C/D/E/F Standards				
All Specifications are tested according to applicable standards, and subject to change without notice due to continuou development.					

Applicable Military Standards 810 E/F

Low Pressure	500.3	II .	500.4	II .
Low Temperature	502.3	I/C3, II/C1	502.4	I/C3, II/C1
Solar Radiation	505.3	1	505.4	1
Humidity	507.3	II .	507.4	-
Dust	510.3	1	510.4	1
Shock	516.4	I, IV	516.5	I, IV



Hytera Communication Corporation Limited

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PD785

Digital Two-Way Radio

Fully compliant to the DMR standard, the PD785 keeps users well-informed in various scenarios, while offering a solution of efficient real-time communication and fleet management with versatile functionalities. This radio has an ergonomic design and a user-friendly interface. The PD785 is your way of optimizing your organization's efficiency on the job.













Product Highlights))



With the combined application of advanced codec and digital errorcorrection technology, the PD785 is capable of ensuring you superior voice with a wider coverage.

Benefiting from TDMA technology, PD785 allows twice the users to share the same channel. This is a big help to

relieve the stress of increasing shortage in spectrum resource.

Compared with an analog radio, the PD785 can obtain an extra 40% operating time at the same output power.

The PD785 can operate in either analog or digital mode. Accordingly, you can get rid of worries about its compatibility with the analog system that you are using, and just enjoy the benefits it brings.

The PD785 is furnished with an enhanced digital encryption capability. Eavesdropping issues are no longer a problem now that your communications are fully secured.



- Compact and light weight structural design makes the PD785 easy to carry and operate.
- Large-sized HD color LCD display and big push-buttons facilitate your access to various functions.
- The globally patented antenna design ensures convenient operation and remarkable GPS* performance.

The PD785 is strictly compliant with MIL-STD-810 C/D/E/F and IP57 standards, ensuring outstanding performance in harshenvironments.



In addition to conventional communication services, PD785 features rich digital services and optional functions such as Message, GPS*, High-speed DataTransmission*, Man Down

The reserved port in PD785 allows users or any third party to further develop other helpfulfunctions.

Additional Features >>

Versatile Voice Calls

Intelligent signaling of PD785 supports various voice call types, including Individual Call, Group Call, All Call and Late Entry.

PD785 supports transmission and reception of short text message and predefined status message.

Emergency

PD785 is equipped with multiple emergency alarm methods such as Man Down and Silent Emergency, enabling you to get instant help in case of a critical event.

This function allows you to listen to communication activities on other channels so that you can keep a close track of your team members.

DM & RM Operation Modes

RM: radios can communicate with each other via a repeater. DM: radios can communicate with each other directly.

Multiple Signalings Available

PD785 supports 2-Tone*, 5-Tone*, HDC1200* and CTCSS/CDCSS.

12.5 /20 /25kHz Channel Spacing

Vibration alert

Get voice call and message in time in noisy environment or low volume mode, no information omitted

Software Upgradable

With this function, you can enjoy more powerful features without buying a new machine.

Industrial Design Features))

