



**DUCATI**  
Radiotelecomunicazioni



# PD6400-6600-6800

## Digital Mobile Radios



- Full features compliant with European ETSI DMR Tier II & III
- Support conventional and trunking modes; support analog and digital modes
- UHF & VHF for land and marine use
- UHF marine "ON-BOARD" compliant according to EN 300 720 V2.1.1 (2017-1) and EN 60945:2002
- High performance processor & large volume battery
- Standard embedded Micro SD card for voice recording and encryption
- GPS, Bluetooth
- Mandown function for more security
- High sensitivity receiving for enhanced communication distance
- Flexible and practical data services and operations
- Big loudspeaker and noise reduction for high quality voice communication
- Friendly open API for third party development



## General

Communication protocols & standards	DMR tier III digital trunking ETSI-TS102 361-1, -2, -3, -4
	Analog trunking MPT 1327 / MPT1343
Frequency Bands	<b>PD6415 - PD6615 - PD6815 : VHF 136-174MHz</b> <b>PD6440 - PD6640 - PD6840 : UHF 400-470MHz</b>
Channel Spacing	12.5KHz / 20KHz / 25KHz
Channel Capacity	<b>PD6600/PD6800: 1000 - PD6400: 100</b>
Battery	7.4V - 2250mAh (Lithium battery)
Working Time (5-5-90 duty cycle, high TX power)	Analog: > 13h; Digital: > 18h
Dimensions (standard battery, not including antenna)	128*55*35.5(H*W*D)
Weight (standard battery, including antenna)	355 ± 1%g
Frequency Stability	± 0.5ppm
LCD Display	160*128pixel, 65535 color, 1.8 inches color screen (SPH6000S non-display)
GPS	Accuracy < 10m, TTFF cold start 1 min / hot start 10 sec
Encryption & Storage	Standard Micro SD

## Transmitter

RF Power Output	VHF High power: 5W; VHF Low power: 1W
	UHF High power: 4W; UHF Low power: 1W
FM Modulation	11KOF3E@12.5KHz; 14KOF3E@20KHz; 16KOF3E@20KHz
4FSK Digital Modulation	12.5KHzData: 7F60FXD
	12.5KHzData& voice: 7F60FXW
Conducted / Radiated Emission	-36dBm < 1GHz; -30dBm > 1GHz
Modulation Limiting	± 2.5KHz@12.5KHz; ± 4.0KHz@20KHz; ± 5.0KHz@25KHz
FM 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 Voice Vocoder	AMBE++ or NVOC

## Receiver

Sensitivity	Analog	0.3 μ V(12dB SINAD); 0.22 μ V(Typical value)(12dB SINAD)
		0.4 μ V(20dB SINAD)
	Digital	0.3 μ V / BER5%
Sensitivity TIA-603 / ETSI	60dB@12.5KHz / 70dB@20 & 25KHz	
Intermodulation	TIA-603	70dB@12.5 / 20 / 25 KHz
	ETSI	65dB@12.5 / 20 / 25 KHz
Spurious Response Rejection TIA-603 / ETSI	70dB@12.5 / 20 / 25 KHz	
Blocking	TIA-603	80dB
	ETSI	84dB
Hum and Noise	40dB@12.5KHz; 43dB@20KHz; 45dB@25KHz;	
Rated Audio Power Output	1.0W	
Rated Audio Distortion	≤3%	
Audio Response	+1~-3dB	
Conducted Spurious Emission	< -57dBm	

## Environmental Specifications

Operation temperature	-30°C~+60°C
Storage temperature	-40°C~+85°C
ESD	IEC 61000-4-2 (level 4); ± 8KV(contact); ± 15KV(air)
Environment Test Standard (Temperature & Fall & Vibration)	MIL-STD-810 C / D / E / F / G
IP Rating	IP67

Remark: The above specifications comply with standard tests accordingly, and due to continuous technical development, they are subject to changes without prior notice.

## Accessories:



Battery



Belt clip



Charger



Power adapter



Antenna



Strap



Shoulder microphone  
(Optional)



Leather case  
(Optional)



Earphone  
(Optional)



Bluetooth  
(Optional)

Distributed by

