

# PM790

## DMR Mobile Radio

- Digital and Analog Compatible
- Multiple External Interfaces
- Excellent Ergonomics
- Loud and Clear Audio
- Multi-Featured
- IP54



# Technical Specifications

General	
Digital Protocol	ETSI TS102 361-1,-2,-3,-4
Frequency	UHF1:400-470MHz UHF3:350-400MHz VHF: 136-174MHz
Channel Capacity	1024
Zone Capacity	64
Channel Spacing	12.5KHz/20KHz/25KHz
Frequency Stability	±0.5ppm
Operating Voltage	DC13.6V ± 15%
Size ( HxWxD )	49x178x156mm
Weight	About 1.4Kg
Screen	2.0" TFT LCD, 220x176, 4 Lines Text
Vocoder	AMBE++
Bluetooth	Support BT2.1+EDR/4.0
Location	GPS/Glonass (Optional)
Encryption	Support SW and HW Encryption(Optional)
Receiver	
Sensitivity(Analog)	0.3uV (12dB SINAD)
Sensitivity(Digital)	0.3uV ( 5% BER)
Adjacent Channel Selectivity	60 dB @ 12.5KHz / 70 dB @ 20 / 25KHz ( TIA603A ) -1T
	50 dB @ 12.5KHz / 75 dB @ 20 / 25KHz ( TIA603D ) -2T
	60 dB @ 12.5KHz / 70 dB @ 20 / 25KHz ( ETSI )
Intermodulation	75 dB ( TIA603D )
	70 dB ( ETSI )
Spurious Rejection	75 dB ( TIA603D )
	70 dB ( ETSI )
Blocking or desensitization	90 dB( TIA603D )
	84 dB( ETSI )
Co-channel rejection	-12~0 dB @ 12.5KHz / -8~0 dB @ 20 / 25KHz
Hum and Noise	-40 dB @ 12.5KHz / -43dB @ 20KHz / -45 dB @ 25KHz
Rated Audio Power	3W ( Internal )
Max Audio Power	6W ( Internal )
Audio Distortion @ Rated Audio	≤3% ( Typical )
Audio Response	+1~-3dB(TIA603D)
Conducted Spurious Emission	-57 dBm (TIA603D)

Transmitter	
Low Power Output	1W-25W ( UHF3 ) / 5-25W( UHF1 / VHF )
High Power Output	5-45W ( UHF1/UHF3 ) / 5-50W ( VHF )
FM Modulation	12.5KHz: 11K0F3E / 20KHz: 14K0F3E / 25KHz: 16K0F3E
4FSK Digital Modulation	12.5KHz Data Only: 7K60F1D&7K60FXD
	12.5KHz Voice Only: 7K60F1E&7K60FXE
	12.5KHz Voice and Data: 7K60F1W
Conducted/Radiated Emission	-36dBm ≤1GHz ; -30dBm >1GHz
Modulation Limiting	±2.5KHz @ 12.5KHz / ±4KHz @ 20KHz / ±5.0KHz @ 25KHz
FM Hum and Noise	-40 dB @ 12.5KHz / -43dB @ 20KHz / -45 dB @ 25KHz
Adjacent Channel Power	60 dB @ 12.5KHz / 70 dB @ 20 / 25KHz
Audio Distortion	≤3%(Typical)
Audio Response	+1~-3dB(TIA603D)
Environmental	
Operating Temperature	-30°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
ESD	IEC 61000-4-2 (level 4) ±8kV (Contact) ±15kV(Air)
Dust and Water Resistance	IP54
Thermal Shock	MIL - STD - 810 G
GPS	
Accuracy specs are for long-term tracking (95th percentile values>5satellites visible at nominal -130 dBm signal strength)	
TTF (Time To First Fix) - Cold Start	<60s
TTF (Time To First Fix) - Hot Start	<10s
Horizontal Accuracy	<10m

## Standard Accessories

