

PM790

DMR Mobile Radio

Digital and Analog Compatible

Loud And Clear Sound

Various External Interfaces

Rich Services

Excellent Man-Machine Interface Design

IP 54



Specifications

General	
Frequency	UHF1 : 400 - 470 MHz UHF2 : 450 - 520 MHz UHF3 : 350 - 400 MHz VHF : 136 - 174 MHz
Channel Capacity	1024
Zone Capacity	64
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz
Frequency Stability	± 0.5 ppm
Operating Voltage	13.6 V ± 15 %
Size	49 x 178 x 156 mm
Weight	< 1.8 Kg
Screen	2.0" TFT LCD, 220 x 176, 4 Lines
Vocoder	AMBE++

Transmitter	
Low Power Output	1 W-25 W
High Power Output	1W- 45W (UHF1 / UHF2 / UHF3) / 1-50W (VHF)
FM Modulation	12.5 KHz : 11K 0F 3E / 25 KHz : 16K 0F 3E
4FSK Digital Modulation	12.5 KHz Data Only : 7K 60F 1D & 7K 60 FXD
	12.5 KHz Voice Only : 7K 60F 1E & 7K 60 FXE
	12.5 KHz Voice and Data: 7K 60F 1W
Conducted/Radiated Emission	- 36 dBm ≤ 1 GHz ; -30 dBm >1 GHz
Modulation Limiting	± 2.5 KHz @ 12.5 KHz / ± 5.0 KHz @ 25 KHz
FM Hum and Noise	-40 dB @ 12.5 KHz / -45 dB @ 25 KHz
Adjacent Channel Power	60 dB @ 12.5 KHz / 70 dB @ 25 KHz
Audio Response	+1 ~ - 3dB (TIA 603D)
Audio Distortion	3%

Receiver	
Sensitivity (Analog)	0.3 uV (12dB SINAD)
Sensitivity (Digital)	0.3 uV (5% BER)
Adjacent Channel Selectivity	60 dB@ 12.5 KHz / 70 dB@25 KHz 0.3 uV (5% BER) -1T
	50dB@ 12.5 KHz / 70 dB@ 25 KHz (TIA 603D) -2T
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 @12.5 KHz
Hum and Noise	-40 dB @ 12.5 KHz / -45 dB @ 25 KHz
Rated Audio Power	3 W (Internal)
Max Audio Power	6 W (External)
Audio Distortion @ Rated Audio	3% (Typical)
Audio Response	+1~-3dB (TIA603D)
Conducted Spurious Emission	-57 dBm (TIA603D)

Environmental Specifications	
Operating Temperature	-30 °C ~ + 60 °C
Storage Temperature	-40 °C ~ + 85 °C
ESD	IEC 61000-4-2 (level 4) ± 8 kV (Contact) ± 15 kV (Air)
Dust and Water Intrusion	IP 54
Thermal Shock	MIL-STD - 810 C / D / E / F / G
Humidity	MIL - STD - 810 C / D / E / F / G

GPS Specifications	
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	< 60 s
TTF (Time To First Fix) - Hot Start	< 10 s
Horizontal Accuracy	< 10 m

Remark: The above specifications are in accordance with the applicable standard test, due to the continuous development of technology, in the future data may change without notice.

Standard Accessories



Handheld
Microphone



Bracket



Power Line



GPS Antenna

