

PM790

DMR Mobile Radio

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- Digital and Analog Compatible
 - Loud And Clear Sound
 - Various External Interfaces
 - Rich Services
 - Excellent Man-Machine Interface Design
 - IP54
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Specifications

General	
Digital Protocol	ETSI-TS102 361 -1,-2,-3
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	13.6V ± 15%
Size (HxWxD)	49x178x156mm
Weight	<1.8Kg
Screen	2.0" TFT LCD, 220*176, 4 Lines
Vocoder	NVOC and AMBE++

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 (External)
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) / 5-50W(VHF)
FM Modulation	12.5KHz: 11K0F3E / 20KHz: 14K0F3E / 25KHz: 16K0F3E
	12.5KHz Data Only: 7K60F1D&7K60FXD
4FSK Digital Modulation	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 Response	+1~-3dB(TIA603D)
Audio Distortion	3%

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 Proof	IP54
Thermal Shock	MIL-STD-810 C / D / E / F / G
Humidity	MIL-STD-810 C / D / E / F / G

GPS	
Accuracy specs are for long-term tracking (95th percentile values>5satellites visible at nominal -130 dBm signal strength)	
TTFF (Time To First Fix) - Cold Start	<60s
TTFF (Time To First Fix) - Hot Start	<10s
Horizontal Accuracy	<10m

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