

PM790

DMR Mobile Radio

- Digital and Analogue 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 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)
Encryption	Support SW and HW Encryption(Optional)
Receiver	
Sensitivity(Analogue)	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



General Disclaimer:

The specifications in this document are in accordance with the applicable standard test. Due to the continuous technology development, Caltta may change the specifications without notice.

