

PM790

DMR Mobile Radio

- Digital & Analog Compatible
- 1DIN Size for Vehicle
- Multiple External Interfaces
- Excellent Ergonomics
- Loud and Clear Audio
- IP54 and Military Quality



Specifications

General

Digital Protocol	DMR ETSI TS102 361-1, -2, -3, -4 (optional)
Frequency	UHF1: 400-470MHz VHF: 136-174MHz
Channel Capacity	1024
Zone Capacity	64
Channel Spacing	12.5kHz/20kHz/25kHz
Operating Voltage	DC 13.6V±15%
Size (H x W x D)	49*178*156mm(1DIN)
Weight	about 1.3Kg
Screen	2.0-inch LCD, 220x176, 4-line text
Vocoder	AMBE++
Real-time Clock	Support
Bluetooth	BT4.0
Location	GPS
Encryption	Supports 40bit basic encryption. 128/256bit AES encryption is optional.
Programmable Keys	4
Frequency Stability	±0.5ppm (Max)

Transmitter

Low Power Output	1W-25W ; 5-25W(UHF1 /VHF)
High Power Output	5-45W(UHF1); 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 Noise	40dB (Min)
Adjacent Channel Power	60 dB@12.5kHz / 70 dB @20/25kHz
Audio Distortion	≤3% (Max)
Audio Response	+1 ~ -3dB(TIA603D)

Receiver

Sensitivity (Analog)	0.20uV(12dB SINAD)
Sensitivity (Digital)	0.20uV (5% BER)
Adjacent Channel Selectivity	60dB@12.5kHz /70dB@20/25kHz (TIA603A) -1T
	60dB@12.5kHz /70dB@20/25kHz (ETSI)
Intermodulation	75dB (TIA603D)
	70dB (ETSI)
Spurious Rejection	75 dB (TIA603D)
	70 dB (ETSI)
Blocking	97dB(TIA603D)
	95dB(ETSI)
Co-channel Rejection	-12~0 dB @12.5kHz/-8~0 dB @20/25kHz
FM Noise	40dB(Min)
Rated Audio Power	3W (Built-in)
Max Audio Power	6W (Built-in)
Audio Distortion	≤3% (Max)
Audio Response	+1~-3dB(TIA603D)
Conducted Spurious Emission	-57 dBm (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
Reliability	MIL-STD-810G

GPS

Accuracy specs are for long-term tracking (95th percentile values >5 satellites 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

ACCESSORIES

Standard



Full Keypad Microphone



Mounting Bracket



Power Cable



GPS Antenna

Optional



3.5 dBi Antenna



5.5 dBi Antenna



M90 Magnetic Antenna Base



M110 Magnetic Antenna Base



Base Station Radio Power Supply



Programming Cable



Split Kit

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