

**Caltta**

DMR Mobile Radio

# DM660



Compact and Competent  
with Excellent Coverage and  
Voice Performance



## Highlights



### DMR Tier II

DMR dual slot capability provides double channel capacity, maximising the use of the channel. It also supports roaming in an IP connect network.



### Analog/Digital Compatible

Adaptable with existing analogue networks, it supports a smooth upgrade to your network.



### Powerful Communication

50W transmitting power and minimum 0.16uV receiver sensitivity for maximum performance.



### Excellent Man-machine Interface

Based on professional user habits, a deeply customized MMI has been developed to aid users to operate radio more comfortably.



### Compact Design

With the slim & lightweight body, the DM660 is easy to be installed in a vehicle. On the front panel, the 1.75-inch LCD provides a rich information display, and the specially designed knob makes operation simple and fast.



### Loud and Clear

Equipped with noise cancellation technology and maximum 6W speaker, it provides excellent voice performance.



### Rich Services

DM660 supports SMS, real-time clock, GPS, call replay, etc. 26pin accessory port supports external PTT, MIC, 16W amplifier, line out, GPIO, etc.



### Reliable and Robust

IP54 and MIL-STD-810H make it suitable for various outdoor works and harsh working environments.





## Application Scenarios



Motorcycle



Car



Fire engine



Van



Truck



Ship

## Installation Mode



Dashboard Mode



Bridge Mode



Desktop Mode

## Accessories

### Standard



Palm Microphone



Power Cable



Mounting Bracket

### Optional



Data Cable



3.5dBi Antenna



M90 Magnetic Antenna Base



5.5dBi Antenna



M110 Magnetic Antenna Base



GPS Antenna

# Specifications

General	
Protocol	ETSI TS 102 361-1,-2,-3
Frequency	UHF1:400-470MHz VHF: 136-174MHz
Channel Capacity	512
Zone Capacity	32
Channel Spacing	12.5kHz/20KHz/25KHz
Frequency Stability	±0.5ppm
Operating Voltage	DC 13.6V ± 15%
Size (H*W*D)	40*166*152mm
Weight	About 1.05Kg
Screen	1.75" TFT LCD, 160*128
Vocoder	AMBE++
GPS	Optional
Real-time Clock	Support
Encryption	Support 40/128/256bit Private Encryption
Accessory Interface	26 Pins Connector

Receiver	
Sensitivity(Analog Typical)	0.16uV(12dB SINAD)
Sensitivity(Digital Typical)	0.16uV (5% BER )
Adjacent Channel Selectivity	60 dB@12.5KHz /70 dB@20/25KHz (TIA603A) 60dB@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	95dB(TIA603D) 90dB(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 ( Build-in ) & 6W ( External )
Max Audio Power	6W ( Build-in ) & 16W ( External )
Audio Distortion @ Rated Audio	≤3%
Audio Response	+1 ~ -3dB(TIA603D)
Conducted Spurious Emission	-57 dBm (TIA603D)

Transmitter	
Low Power Output	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 ≤1 GHz ; -30dBm >1 GHz
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 @ Rated Audio	≤3%
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 Proof	IP54
Reliability	According to MIL-STD-810H

GPS (optional)	
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

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 timely notice.

**Caltta** CALTTA TECHNOLOGIES CO.,LTD.

Address: 12F/Building G2, International E-City, Nanshan, Shenzhen, China

Web: <https://www.caltta.com/> E-mail: [sales@caltta.com](mailto:sales@caltta.com) Post: 518052



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