

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.



Analogue/Digital Compatible

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



Powerful Communication

25W 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 ≤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 @ 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)	
TTFF (Time To First Fix) - Cold Start	<60s
TTFF (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.

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