

## DMR Basestation Radio Model : RM-810B



### Main Features:

- **2.8" HD TFT LCD Display**
- **Full- duplex Communication (Optional)**  
Full duplex calls allow for natural and intuitive communications without to push-to-talk (only in trunking mode).
- **Built-in GPS & Bluetooth (Optional)**  
Equipped Bluetooth inside supports the further features such as BT accessories, BT wireless programming and other applications. Supports viewing of GPS position information and sending of GPS text message.
- **Built-in Noise Reduction Function(Optional)**  
Featured with advanced noise reduction, supports extra 25 dB noise cancellation performance.
- **DMR Tier II Conventional and Tier III trunked support**
- **Further API Support**  
Further and rich API supports the user or the third party to develop supplemental applications.
- **AC Power Support**  
AC Voltage Input 93~264V 47~63Hz, DC Voltage Output 13.6V 11.6A

## Specifications:

General	
Frequency	VHF:136-174 MHz or UHF:400-470MHz
Channel Capacity	1024
Channel Space	12.5KHz/25KHz
Dimensions(H*W*D)	60*174*190mm
Weight	2800g
LCD	2.8" HD TFT LCD 240×320 pixels, 262K colors
Operating Voltage	DC13.6V±15%
Current Drain	<12A (45W)
	<8A (25W)
	<5A (5W)
Reliability	
Operating Temperature	-30 - +60℃
Storage Temperature	-40 - +85℃
Receiver	
Digital Sensitivity	-120dBm/BER 5% / -116dBm/BER 1%
Digital Dynamic Faded Sensitivity	-104dBm
(100KM/H& 8KM/H Rayleigh Fading)	
Analog Sensitivity	-120dBm/12dB SINAD
Intermodulation	75dB (TIA603) /70dB(ETSI)
Blocking	95dB (TIA603 & ETSI)
Spurious Response Rejection	75dB (TIA603 & ETSI)
Selectivity	75dB@25 KHz(TIA603&ETSI) /65dB@12.5KHz(TIA603&ETSI)
Conducted Spurious Emission	-57dBm
Rated Audio Power Output	4W(Internal@20ohm load) / 7.5W(External@8ohm load)
Max Audio Power Output	8W(Internal@20ohm load) / 20W(External@8ohm load)
Rated Audio Distortion	3%
Hum and Noise	45dB @25KHz /40dB@12.5KHz
Audio Response	+1dB - -3dB
Digital Vocoder Type	AMBE++/NVOC
Digital Protocol	ETSI-TS102 361-1, -2,-3,-4
Transmitter	
Frequency Stability	0.5ppm
RF Power Output	High Power Model:45-50W Low Power Model:25W
Digital Modulation	7K60FXD(Data Only) /7K60FXW ( Data and Voice )
FM Modulation	16K ¢ F3E@25KHz /11K ¢ F3E@12.5KHz
4FSK Modulation Accuracy	5%
4FSK BER	0%
4FSK and Magnitude Error	5%/1%
Adjacent Channel Power	70dB@25KHz /60dB@12.5KHz
Conducted and Radiated Emission	-36dBm <1GHz /-30dBm >1GHz
Transmission Deviation limits	5KHz@25KHz /2.5KHz@12.5KHz
Audio Distortion	3%
Hum & Noise	45dB@25KHz /40dB@12.5KHz
Audio Response	+1dB~-3dB
Power Supply(RPS-100)	
AC Input	AC 90~264V, 47~63Hz
DC Output	DC 13.6V, 11.6A
Operating Temperature	-20 - +60℃

Remarks: All Specifications are subject to change without notice due to continuous development.