

# CS810

## DMR Mobile Radio



CS810 adopts the latest digital technologies, which results in a high quality product which is easy to use and very cost effective.

### Key Features:

- 1,000 Contact Lists
- 1,000 Channels
- Field Programming
- Dual Modes(Digital+Analog)
- Remote Header Mobile
- Superior Digital Voice
- Versatile Calls and Data Service
- Full Analog Signaling
- GPS option
- Bluetooth option



## Features

### ■ Customizing

The customer could give his idea to his dealer for the manufacture to add its great idea in his radio by software upgarding. Some unique new features list as,

- DMR Monitor
- Per Channel ID
- Group Call Alert
- TX Contact not Include
- Same ID Decode
- Internal/External Mic Gain

### ■ Lone Worker

### ■ Digital / Analog Emergency

Support 32 Digital Emergency Systems and 4 Analog Emergency Systems.

### ■ Digital Encryption

Support 16-bit basic encryption and 72-bit enhanced encryption.

### ■ Voice Auto Record

Support automatic record after receiving a 2-tone or 5-tone signaling. Four voice 15-second records standard.

### ■ Channel Voice Annunciation

Channel Voice Annunciation is useful when you are not convenient to watch the radio. You could even use your own annunciation voice.

### ■ Contact / Channel Import & Export

You could convert the configurations between different models by this feature.

## Other Features

### ■ CTCSS / DCS Encode & Decode

### ■ DTMF / MDC 1200 / 2Tone/5Tone Encode & Decode

### ■ One Touch / Quick Menu

### ■ Dual priority Scan

### ■ VOX

### ■ Kill / Revive

### ■ Power Up Zone / Home Zone

### ■ Frequency Display

### ■ 8-Programmable Long / Short Key

### ■ Power On / Write / Read / Configuration File Password

### ■ Microphone Menu Operation

## ACCESSORIES



## Specifications

### General

Power Supply	13.6V DC±20%
Frequencies-Full Bandsplit	400~470MHz
Number of Channels	1000 Channels
Maximum number of Zones	250 Zones
Maximum number of Channels Per Zone	16
Channel Spacing	12.5/25kHz
Operating Temperature	-30℃~+60℃
Dimensions: HxWxD (mm)	
With the remote header	46X160X175
Weight: (g)	
Not including installation	1315g

### Transmitter

Frequency Stability (-30℃ to 60℃, 25℃ Ref)	1.0 ppm
Power Output	5W(L)/25W(M)/45W (H)
Modulation Limiting	±2.5kHz@12.5kHz/±5kHz@25kHz
FM Hum & Noise	-40dB@12.5KHz/-45dB@25KHz
Conducted/Radiated Emission	-36dBm<1GHz, -30dBm>1GHz
Adjacent Channel Power	-60dB@12.5KHz -70dB@25KHz
FM Modulation Mode	12.5KHz: 11K0F3E/25kHz: 16K0F3E
4FSK Digital Mode	12.5KHz (data only) : 7K60FXD 12.5KHz (data+voice) : 7K60FXE
4FSK Modulation Accuracy	5%@25℃, 10%@extreme temperature
Audio Response (300~3000Hz)	+1~-3dB
Digital Protocol	ETSI TS 102 361-1,-2,-3
Audio Distortion	<3%
Vocoder	AMBE+2™
Ext. Connector	DB15

### Receiver

Analog Sensitivity	0.35μV/-116dBm (20dB SINAD) 0.22μV/-120dBm (12dB SINAD)
Digital Sensitivity	0.3μV/-117.4dBm (BER 5%) 0.7μV/-110dBm (BER 1%)
Intermodulation	TIA603 70dB; ETSI 65dB
Adjacent Channel Selectivity	TIA603 70dB; ETSI: 65dB@25KHz TIA603 60dB; ETSI 60dB@12.5KHz
Spurious Rejection	TIA603: 75dB; ETSI: 70dB
Blocking	84dB
Rated Audio/MAX Audio	2W / 3W
Audio Distortion@Rated Audio	3%
Audio Response (300-3000Hz)	+1~-3dB
Conducted Spurious Emission	-57dBm<1GHz, -47dBm>1GHz ETS300086