QM2100A Professional Analog Mobile Radio

QUANTUN

Key Feature

The QM2100A is a rugged mobile radio, with CTCSS/DCS, 2/5 Tone, DTMF, MDC1200 Encode and Decode. It also provides GPS and Blue Tooth option.

Wide Band
Allows the radio to be programmed in a wide frequency range.
VHF:136-174MHz and UHF:400-470MHz

Signaling
The radio includes a variety of signaling options: 2Tone, 5Tone,DTMF & MDC1200 Signaling system. These signaling systems come with PTT ID, Voice Storage, Individual Call, Group Call, Short Message and Data Transmission.

Voice Annunciation
The radio will let you know what channel is selected every time you switch the channel with a voice announcement. There is no need to talk or look at the channel knob on the radios.

Voice Recording
The radio is able to record up to 60 seconds of voice messages.
This feature also allows for storing and reading of recorded voice messages and incoming messages when using the 2 Tone/5Tone selective call option. Messages can be played back when desired by the user.

GPS(Optional)
The Global Positioning System option enables the user to keep track of the radio and/or the user of the radio at any given time while radio is within it's coverage area.

Blue Tooth (Optional)
Blue Tooth could be chosen. Some rulers inhibit the operation while driving a car, Blue Tooth mircrophone and PTT could provide a convenient selection, especially for some rulers inhibiting the operation while driving a car.

Emergency Alarm
In case of an emergency an alarm will be transmitted from the radio when the alarm button is pressed.
The radio can also be programmed to send emergency indentify number and background voice to others etc.

PC Tuning
Simplifies maintenance of the radio and tuning of the radio by allowing both to be done via a PC

VOX
Allows for hand free operation of the radio when the appropriate VOX accessory is attached, or even use a inside VOX function if you wanted.

Embedded Message & Serial Number
The radio can store both messages and records, for example: maintenance, history or programming records. The electronic serial number makes the unit identifiable even if the radio's tag with the serial number, etc. is lost or removed.

Powerful Audio Output
A 2W rated audio output ensures a clear audio even in the noisiest of enviroments.

Password Protection
A radio password can be designated upon PC programming. This Protects the radio from unauthorized users changing the programming of the radio or accessing information related to the radio.

Specifications

General

Power Supply	13. 6V Dc±20%
Frequencies-Full Bandsplit	136~174MHz，400~470MHz
Number of Channels	1000 Channels
Maximum number of Zones	250 Zones (LCD)
Maximum number of Channels Per Zone	999 + 1
Channel Spacing	12.5/25kHz
Operating Temperature	-30℃~+60℃
Dimensions：HxWxD（mm）With the remote header	45mm X 160 X 175
Weight：（g） Not With including installation	1180g

Transmitter

Frequency Stability（−30℃ to 60℃, 25℃ Ref）	1.0 ppm
Power Output	10W(L)/25W(M)/45W(H)(UHF)/50W(H) (VHF)
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
Audio Response（300−3000Hz）	+1~-3dB
Audio Distortion	<3%
Ext. Connector	DB15

Receiver

Sensitivity	0.35μV/-116dBm（20dB SINAD）
	0.22μV/-120dBm（12dB SINAD）
Intermodulation	TIA603 70dB；ETSI 65dB
Adjacent Channel Selectivity	TIA603C 70dB；TESI：70dB@25kHz
	TIA603C 60dB；TESI：60dB@12.5kHz
Spurious Rejection	TIA603C：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