TM840

A fully featured DMR Mobile Radio, which supports both digital and analogue modes.

DMR
DIGITAL MOBILE RADIO ASSOCIATION

TM480 - DMR Mobile Radio

KEY FEATURES AND BENEFITS

1.8" Colour Dot-Matrix Display

The large-sized, full colour display enables easy viewing of information, even under bright sunlight.

One Touch Operation

The TM840 provides four programming keys, enabling one-button operation of functions such as Text Message or Voice Calls.

Versatile Voice Calls & Data Services

The TM840 supports various voice call types, including Private Call, Group Call, All Call and Emergency Call, as well as data services such as Text Messaging.

Voice Privacy

Enhanced digital encryption and scrambled analogue call features ensures the privacy of communications between users in any chosen mode.

Advanced Features

The TM840 has advanced features such as Radio Check, Remote Monitor, Call Alert, Monitor Channel, Kill, Stun, Revive & Transmit Interrupt.

Accessory Expansion

The TM480 is designed with a second accessory port on the rear of the mobile. This can be used for accessories such as an emergency footswitch.

Scan

The TM840 supports scanning for both digital and analogue signals.

MODELS	
TM840U	TM840 DMR UHF
TM840V	TM840 DMR VHF

STANDARD ACCESSORIES

Fixed Bracket

DC Power Cable

Microphone

All specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

Dealer Information

Specifications

GENERAL		
Frequency Range	VHF 136-174MHz, UHF 400-470MHz	
Channel Capacity	1024	
Zone Capacity	248	
Channel Spacing	12.5kHz/20kHz/25kHz	
Normal Operating Voltage	13.6±15%	
Current Drain	Standby (Max)	<0.6A
	Receive (Max)	<2.0A
	Transmit (Max)	<14A (40W) <8A (25W)

TRANSMITTER	
Frequency Stability	0.5ppm
Power Output	Low Power: 25W, High Power: 40W(UHF)/45W(VHF)
Modulation Limiting	2.5kHz@12.5KHz,4kHz@20kHz,5kHz@25kHz
FM Hum and Noise	-40dB@12.5kHz,-45dB@20kHz/25kHz
Conducted/Radiated Emission	-36dBm@<1GHz, -30dBm@>1GHz
Adjacent Channel Power	-60dB@12.5kHz,-70dB@20kHz/25kHz
4FSK Digital Modulation	12.5kHz Data: 7K60F1D&7K60FXD,12.5kHz Voice: 7K60F1E&7K60FXE Combination of 12.5kHz Voice and Data: 7K60F1W
FM Modulation Mode	12.5kHz:11K0F3E, 25kHz:16K0F3E
Audio Response	+1~-3dB
Audio Distortion	3%
Vocoder	AMBE++
Digital Protocol	ETSI TS 102 361-1, -2, -3

RECEIVER	
Frequency Stability	0.5ppm
Digital Sensitivity	5%BER:0.22μV
Analog Sensitivity	0.25 μV(12dB SINAD)
Intermodulation	TIA603C:70dB ETSI:65dB
Adjacent Channel Selectivity	ETSI: 60dB@12.5kHz, 70dB@20kHz/25kHz
Spurious Response Rejection	TIA603C:75dB ETSI:70dB
Rated Audio Power	3W
Rated Audio Distortion	3% (Typical)
Hum and Noise	-40dB@12.5kHz, -45dB@20kHz/25kHz
Audio Response	+1~-3dB
Conducted Spurious Emission	-57dBm@ < 1GHz, -47dBm @> 1GHz

ENVIRONMENT SPECIFICATIONS	
Operating Temperature	－30℃～＋60℃
Storage Temperature	－40℃～＋85℃
Temperature Shock	Per MIL-STD
ESD	IEC 61000-4-2 (level 4)
Humidity	Per MIL-STD
Water and Dust proof	IP54

TESTED TO MILITARY STANDARD 810G		
	METHODS	PROC/CAT
Low Pressure	500.4	II
High Temperature	501.5	I/Hot A1,II/Hot (A1)
Low Temperature	502.5	I/C3,II/C1
Temperature Shock	503.5	I/C
Solar Radiation	505.5	I
Rain	506.5	I,III
Humidity	507.5	II
Salt fog	509.5	–
Dust	510.5	I
Vibration	514.6	I/24
Shock	516.6	I,IV