Version V1.0

DM588

DMR mobile radio

As a DMR mobile radio with fashionable design, totally functionality, DM588 brings extraordinary experience of digital communication in variety of scenarios such as taxis, truck, Agriculture, delivery, school bus, and Ambulance.

DM588 DMR Mobile Radio

Key Features and Benefits

• Compact, Sophisticated and Stylis

Fashionable design, only 151mm×149mm×47mm in size and weighs 1.15kg with a 1.8" color HD TFT screen.

• Smart Digital-Analog Auto Detection

DM588 can be configured in analog, digital or mixed mode. When configured in mixed mode, the mobile dynamically switch mode depending on the type of signal received.

• Versatile Voice Calls

Enhanced digital voice call feature facilitates call management between team members and ensures communication privacy.

• Secure Communication

DM588 provides basic and enhanced encryption capability using ARC4 algorithm, It ensures secure communication on voice call and data transfer between team members. DES, and 256 bits AES encryption algorithm are optional.

• Rich Signalings

Supports multiple advanced signalings, including MDC1200, DTMF, 2 tone and 5 tone, compatible with analog systems to achieve seamless analog to digital conversion.

• Versatile Services

In addition to conventional communication services, DM588 provides multiple functions such as Text Message, Radio Enable/Disable, Remote Monitor, Kill and Emergency calls.

• Roaming

Automatic roaming helps you to use the radio freely among all sites on an IP Multi-Site Connect system.

• Pseudo Trunk

Dynamically allocation of slot while using repeater mode. Improve channel utilization providing simultaneous communication on radios.

• GPS Location (Optional)

Integrated GPS enables the real time tracking of the mobile working team.

Standard Accessories


Hand Microphone


Mounting Bracket


Power Cord

Optional Accessories


Hand Microphone (with keypad)


Vehicle Antenna


GPS Antenna

Specifications

General		
Frequency Range		136~174MHz,400~480MHz
Channel Capacity		256
Zone Capacity		16
Channel Spacing		20kHz/25kHz/12.5kHz
Operating Voltage		13.6V±15%
Current Drain	Standby	<0.6A
	Receive	<2.0A
	Transmit	<8A(25W)
Frequency Stability		0.5ppm
Antenna Impedance		50Ω
Dimensions(H·W·D)		151mm×149mm×47mm
Weight		1.15kg
LCD Display		1.77inch, 5 rows

Receiver		
Sensitivity	Analog	0.22μV(12dB SINAD)
	Digital	0.22μV/BER5%
Selectivity		60dB@12.5kHz, 70dB@20/25kHz(TIA-603) 60dB@12.5kHz, 70dB@20/25kHz(ETSI)
Spurious Response Rejection		70dB@12.5/20/25kHz(TIA-603) 70dB@12.5/20/25kHz(ETSI)
Inter-modulation		70dB@12.5kHz/25kHz(TIA-603) 65dB@12.5kHz/25kHz(ETSI)
Hum and Noise		40dB@12.5kHz, 45dB@20/25kHz
Rated Audio Power Output		3W
Rated Audio Distortion		3% (Typical)
Audio Response		+1~-3dB
Conducted Spurious Emission		-57dBm@<1GHz, -47dBm@>1GHz

Transmitter	
RF Power Output	Low Power:5W,High Power: 25W
FM Modulation	11K0F3E@12.5kHz,14K0F3E@20kHz, 16K0F3E@25kHz
4FSK Digital Modulation	12.5kHz Data: 7K60F1D&7K60FXD, 12.5kHz Voice: 7K60F1E&7K60FXE, Combination of 12.5kHz Voice and Data: 7K60F1W
Modulation Limiting	±2.5kHz@12.5kHz, ±4.0kHz@20kHz, ±5.0kHz@25kHz
FM Hum & Noise	40dB@12.5kHz, 45dB@20kHz/25kHz
Adjacent Channel Power	60dB@12.5kHz, 70dB@20kHz/25kHz
Audio Response	+1~-3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+2™
Digital Protocol	ETSI-TS 102 361-1,-2,-3

GPS	
Accuracy specs are for long-term tracking(5 satellites visible at nominal-130dBm)	
TTFF(Time To First Fix)-Cold Start	<1 minute
TTFF(Time To First Fix)-Hot Start	10 seconds
Horizontal Accuracy	10 m

Environmental Specifications	
Operating Temperature	-30 C ~+60 C
Storage Temperature	-40 C ~+85 C
ESD	IEC610000-4-2(Level4) ±4kV(Contact) ±8kV(air)
American Military Standard	MIL-STD-810-C/D/E/F/G
Dust & Water Protection	IP54 Standard
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

All specifications are subject to change without notice due to continuous development.

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