



GPS
Optional

MD-96

Digital Mobile radio (DMR)

Use Time-Division Multiple-Access (TDMA) digital function
Comply with digital protocol ETSI TS 102 361-1,-2,-3
Compatible with DMR Tier I & II



QCOM

QCOM

MD-96

Digital Mobile radio (DMR)

Main Functions

Use Time-Division Multiple-Access (TDMA) digital function
Comply with digital protocol ETSI TS 102 361-1,-2,-3
Compatible with DMR Tier I & II

Analog and digital combined
Single call, group call and all call
ANI function
Encryption function
Remote kill/stun and activate
Short text message function
Call log check and edit function
Short text message check and edit function
Contacts check and edit function
PC programmable function
CTCSS/DCS encoding and decoding function
PC password protection function
Draft message edit function
Telemetry
250 zones, 16 channels for each zone
1000 channels
Color LCD display
Programmable functional keys
Voice prompt
Low voltage prompt
Upgradeable by firmware
Power saving
TOT
Emergency alert
SQL setting
Scanning function and priority scanning
Monitor function
VOX transmitting
Lone worker
Time and zone setting

Application scope:

Police, Transportation, Forestry, Security, Emergency Services, City Councils, Government, Constructions Sites, Airports, Shopping Centres

DEALER:

MANUFACTURER
QCOM AUSTRALIA PTY LIMITED
PO Box 29, GRANGE, QLD, 4051
AUSTRALIA
www.qualitycomms.com

General

Model No.	MD-96		
Frequency Range(MHz)	VHF	UHF1	UHF2
	136-174 Mhz	400-480 Mhz	450-520 Mhz
Channel	1000		
PLL Channel Spacing	6.25/25/12.5/25KHz		
Voltage Rating	DC 13.8V		
Operating Temperature	-30 C ~+60 C		
Storage Temperature	-30 C ~+85 C		
Dimension	143x50x175 mm		
Compatible With American Military Standard	(MIL-STD-810C/D/E)		

Receiver

Frequency stability (-20 C ~+60 C , +25 C)	+/-1.0ppm
Digital Sensibility	0.3uV/-117.4dBm(BER 5%) 0.7uV/-110dBm(BER 1%)
Analogue Sensibility	0.35uV/-116dBm(20dB SINAD) 0.22uV/-120dBm(20dB SINAD)
Rated audio	5W
Adjacent Channel Selectivity	TIA603C:60 dB @ 12.5kHz ETSI: 60 dB @ 12.5kHz
Intermodulation	TIA603C:65 dB ETSI: 65 dB
C0-channel Rejection	12 dB @ 12.5kHz
Spurious Rejection	TIA603C:70 dB ETSI: 70 dB
Audio distortion @ rated audio	<3%
FM Hum and Noise	-40dB @12.5kHz -45dB @25kHz
Audio response	+1dB~-3dB
Spurious emission	-57dBm@ < 1GHz -47dBm@ > 1GHz
Block	84dB

Transmitter

RF Power Output	L:25W H:50W (VHF) L:25W H:45W (UHF)
FM Hum and Noise	-40dB @12.5kHz -45dB @25kHz
Modulation limited	+/-2.5kHz @ 12.5kHz +/-5.0kHz @ 25kHz
Conducted/radiated emission	-36 dBm < 1GHz -30 dBm > 1GHz < 4GHz
Adjacent channel power	-60 dB @12.5kHz -65 dB @ 25kHz
Audio Response	+1dB~-3dB
Audio distortion	3%
FM modulation	12.5kHz: 11KOF3E 25kHz: 16KOF3E
4FSK digital modulation	12.5kHz only data:7K60FXD 12.5kHz data and audio:7K60FXE
Digital Protocol	ETSI TS 102361-1, -2, -3
Digital vocoder type	AMBE++
Digital agreement	DMR