

DMR Repeater

Model: QDR-08



Analogue / Digital

Complies with AUS/NZ
RF Standards



Main Features:

- ◆ 19 Inch, 1RU Cabinet Size Design Including Switchmode Power Supply
- ◆ 100% Continuous Duty Cycle with 50W High Power Output
- ◆ IP Site Connect

QCOM AUSTRALIA PTY LTD
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Specifications






General	
Frequency	VHF :136-174MHz UHF :400-470MHz or 450-520MHz
Channel Capacity	32
Channel Space	12.5KHz/25KHz
Dimensions(H*W*D)	44*483*375*mm
Weight	7.6Kg
LCD	1.8" 128x160 pixels, TFT color LCD
Operating Voltage	DC13.6V±15% / AC100-240VA
Current Drain	500 mAmp (Standby)
	5 Watt = 3 Amp (Transmit)
	10 Watt = 4 Amp (Transmit)
	20 Watt = 5.5 Amp (Transmit)
	30 Watt = 7.1 Amp (Transmit)
40 Watt = 9.3 Amp (Transmit)	
50 Watt = 10.3 Amp (Transmit)	
Frequency Stability	0.5ppm

Receiver	
Digital Sensitivity	0.22uV BER 5% / 0.35uV BER 1%
Digital Dynamic Faded Sensitivity (100KM/H& 8KM/ H Rayleigh Fading)	-104dBm
Analog Sensitivity	0.22uV @12dB SINAD
Intermodulation	75dB (TIA603) /70dB(ETSI)
Blocking	95dB (TIA603 & ETSI)
Spurious Response Rejection	75dB (TIA603 & ETSI)
Selectivity	75dB@25 KHz(TIA603&ETSI) /65dB@12.5KHz(TIA603&ETSI)
Conducted Spurious Emission	-57dBm
Rated Audio Power Output	1W
Rated Audio Distortion	3%
Hum and Noise	45dB @25KHz /40dB@12.5KHz
Audio Response	+1dB ~-3dB
Digital Vocoder Type	AMBE++/NVOC
Digital Protocol	ETSI-TS102 361-1, -2,-3,-4

Transmitter	
Frequency Stability	0.5ppm
RF Power Output	High Power Model:45~50W Low Power Model:25W
Digital Modulation	7K60FXD(Data Only) / 7K60FXW (Data and Voice)
FM Modulation	16K ϕ F3E@25KHz / 11K ϕ F3E@12.5KHz
4FSK Modulation Accuracy	5%
4FSK BER	0%
4FSK and Magnitude Error	5% /1%
Adjacent Channel Power	70dB@25KHz /60dB@12.5KHz
Conducted and Radiated Emission	-36dBm <1GHz /-30dBm >1GHz
Transmission Deviation limits	5KHz@25KHz /2.5KHz@12.5KHz
Audio Distortion	3%
Hum & Noise	-48dB@25KHz /-43dB@12.5KHz
Audio Response	+1dB~-3dB

Reliability	
Operating Temperature	-30 ~ +60°C
Storage Temperature	-40 ~+85°C
Shock & Vibration	MIL-STD-810 C/D/E/F/G standard
ESD	IEC 61000-4-2(level 4) \pm 8KV (Contact) , \pm 15KV (Air)
Surge Immunity Test (EN 6100~4-5)	Differential Mode:6KV Common Mode:6KV

Accessories

				
Duplexer	AC Power Cable	Power Cord	Programming Cable	Fuse