

QDR-08



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QDR-08

DMR/ANALOGUE REPEATER

FEATURES

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



APPLICATIONS

- Mining
- Hotels
- Shopping Centres
- Factories
- Sporting Venues
- Airports
- Construction

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GENERAL SPECIFICATIONS

Frequency	VHF: 136-174MHz / UHF: 400-470MHz / UHF: 450-520MHz
Channel Capacity	32
Channel Space	12.5KHz/25KHz
Dimensions (H*W*D)	44*483*375*mm
Weight	7.6kg
LCD	1.8" 128×160 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

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

RECEIVER

Digital Sensitivity	0.22uV BER 5% /0.35uV BER 1%
Digital Dynamic	-104dBm
Faded Sensitivity (100KM/H& 8KM/H Rayleigh Fading)	0.22uV @12dB SINAD
Analog Sensitivity	75dB (TIA603) /70dB(ETSI)
Intermodulation	95dB (TIA603 & ETSI)
Blocking	75dB (TIA603 & ETSI)
Spurious Response Rejection	75dB@25 KHz(TIA603&ETSI)
Selectivity	/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

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) ±8KV (Contact), ±15KV (Air)
Surge Immunity Test (EN 6100~4~5)	Differential Mode:6KV Common Mode:6KV

- All specifications are subject to change without notice due to continuous development
- Complies with Australia / New Zealand RF standards



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QDR-08 ACCESSORIES



INCLUDED IN THE BOX



AC Power Cable



Power Cord



Programming Cable



Fuse

OPTIONAL EXTRAS



Duplexer