

DMR Repeater

Model: RPT-08N



DMR Repeater/ Analog and Digital

Main Features:

- ◆ 19 Inches, 1U Cabinet Size Design with Power Supply Inside
- ◆ 100% Continuous Duty Cycle with 50W High Power Output
- ◆ DMRA AIS Application Successful Solution
- ◆ Upgrade to DMR Trunking and Simulcast Basestation Transceiver

Specifications

General	
Frequency	UHF1:400-470MHz
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	<1A (Standby)
	<11A (Transmit)
Frequency Stability	0.5ppm
Continuous duty Cycle	100%

Receiver	
Digital Sensitivity	-120dBm/BER 5% / -116dBm/BER 1%
Digital Dynamic Faded Sensitivity (100KM/H& 8KM/H Rayleigh Fading)	-104dBm
Analog Sensitivity	-120dBm/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	45dB@25KHz /40dB@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) ±8KV (Contact) ,±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