

# RD985

<b>General</b>		
Frequency Range	400-470MHz 136-174MHz	
Channel Capacity	16	
Channel Spacing	25/20/12.5 kHz	
Operating Voltage	13.6±15% V DC	
Current Drain	Standby	1.2A
	Transmit	12A
Frequency Stability	±1ppm	
Antenna Impedance	50Ω	
Duty Cycle	100%	
Dimensions (W×H×D)	19.0 X 3.5 X 14.4 inch	
Weight	299.8 oz	
LCD Display	220×176 pixels; 262,000 colors	
<b>Transmitter</b>		
RF Power Output	5-50W (adjustable)	
FM Modulation	11KΦF3E @ 12.5 kHz 14KΦF3E @ 20 kHz 16KΦF3E @ 25 kHz	
4FSK Digital Modulation	12.5kHz (data only): 7K6ΦFXD 12.5kHz (data & voice): 7K6ΦFXW	
Conducted/Radiated Emission	-36dBm <1GHz -30dBm >1GHz	
Modulation Limiting	±2.5kHz@ 12.5 kHz ±4.0 kHz@ 20 kHz ±5.0kHz @ 25 kHz	
FM Noise	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz	
Adjacent Channel Power	60dB @ 12.5 kHz 70dB @ 20/25KHz	
Audio Response	+1 ~ -3 dB	
Audio Distortion	3%	
Digital Vocoder Type	AMBE++ or SELP	
<b>Receiver</b>		
Sensitivity	Analog	0.3μV (12dB SINAD) 0.22μV (Typical) (12dB SINAD) 0.4μV (20dB SINAD)
	Digital	0.3μV/BER5%
Blocking	100dB	
Adjacent Channel Selectivity	65dB @ 12.5 kHz / 75dB @ 20/25 kHz	
Intermodulation	75dB @ 12.5/20/25 kHz	
Spurious Response Rejection	85dB @ 12.5/20/25 kHz	
S/N	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz	
Rated Audio Power Output	0.5W	
Rated Audio Distortion	3%	
Audio Response	+1 ~ -3 dB	
Conducted Spurious Emission	-57 dBm	
<b>Environmental Specifications</b>		
Operating Temperature	-30°C ~ +60°C	
Storage Temperature	-40°C ~ +85°C	