

RL-D800&RL-D800K_Comparison

Model	RL-D800	RL-D800K
		
GENERAL		
Dimensions (HxWxL) mm	54(W) x 113.5(H) x 33.5(D)mm	54(W) x 113.5(H) x 33.5(D)mm
Dimensions (Weight)	0.27Kg	0.27Kg
Display	Non	40*24mm (B/W, Matrix)
Power Supply	7.4V 1800mAh Lithium-Ion	7.4V 1800mAh Lithium-Ion
Battery Life & Current Drain	Analog : 10 Hours Digital : 14 Hours (5/5/90 Duty Cycle)	Analog : 10 Hours Digital : 14 Hours (5/5/90 Duty Cycle)
Battery Charge Support	AC 100~240V DC 12V, 500mA	AC 100~240V DC 12V, 500mA
Frequency	66~88MHz 136~174MHz 405~480MHz 450~520MHz	66~88MHz 136~174MHz 405~480MHz 450~520MHz
Channel Spacing	12.5KHz / 25KHz	12.5KHz / 25KHz
Memory Channels	64	1000
Operating Temperature	-30℃ ~+60℃	-30℃ ~+60℃
Frequency Stability	± 1.0ppm	± 1.0ppm
IP Rating/Humidity	IP-67	IP-67
Shock & Vibration	MIL-STD-810G	MIL-STD-810G
Certification	CE-RED	CE-RED

Transmitter

RF Power Output	5.0/1.0W	5.0/1.0W
4FSK Digital Modulation	7K60FXD(Data Only) 7K60FXW(Data & Voice)	7K60FXD(Data Only) 7K60FXW(Data & Voice)
FM Modulation	16KF3E@25KHz 11KF3E@12.5KHz	16KF3E@25KHz 11KF3E@12.5KHz
Deviation Limites	±5KHz@25KHz ±2.5KHz@12.5KHz	±5KHz@25KHz ±2.5KHz@12.5KHz
4FSK Modulation Accuracy	5%	5%
Adjacent Channel Power	70dB@25KHz 60dB@12.5KHz	70dB@25KHz 60dB@12.5KHz
Conduct/Radiated Emission	≤ -36dBm, < 1GHz ≤ -30dBm, > 1GHz	≤ -36dBm, < 1GHz ≤ -30dBm, > 1GHz
Audio Distortion	3%	3%
Hum & Noise	45dB@25KHz 40dB@12.5KHz	45dB@25KHz 40dB@12.5KHz
Audio Response	+1dB~-3dB	+1dB~-3dB

Receiver

Digital Sensitivity	-117.4dBm/BER 5% -110dBm/BER 1%	-117.4dBm/BER 5% -110dBm/BER 1%
Analog Sensitivity	-120dBm/SINAD 12dB	-120dBm/SINAD 12dB
Adjacent Channel Selectivity	TAI603C : 65dB@12.5KHz ETSI : 60dB@12.5KHz	TAI603C : 65dB@12.5KHz ETSI : 60dB@12.5KHz
Intermodulation	TAI603C : 70dB ETSI : 65dB	TAI603C : 70dB ETSI : 65dB
Spurious Response Rejection	TAI603C : 75dB ETSI : 70dB	TAI603C : 75dB ETSI : 70dB
Blocking	84dB	84dB
Conducted Spurious Emission	≤ -57dBm, < 1GHz ≤ -47dBm, > 1GHz	≤ -57dBm, < 1GHz ≤ -47dBm, > 1GHz
Hum and Noise	45dB@25KHz 40dB@12.5KHz	45dB@25KHz 40dB@12.5KHz
Audio Power Output	1W	1W
Audio Distortion	3%	3%
Audio Response	+1dB~-3dB	+1dB~-3dB
Digital Vocoder Type	AMBE+2™	AMBE+2™
Digital Protocol	ETSI TS 102 361-1,-2,-3	ETSI TS 102 361-1,-2,-3