

12. TECHNICAL SPECIFICATIONS

General		
Frequency Range	Europe: 144-146MHz(V),430-440MHz(U) United State: 136-174MHz(V),400-480MHz(U) Australia: 144-148MHz(V), 420-450MHz(U) India: 144-146MHz(V), 436-438MHz(U)	
Channel Capacity	4000 channels	
Channel Spacing	25KHz (Wide Band) ,12.5KHz (Narrow Band)	
Phase-locked Step	5KHz, 6.25KHz	
Operating Voltage	7.4V DC $\pm 20\%$ /(2100mAh)	
Frequency Stability	± 2.5 ppm	
Operating Temperature	-20°C ~ +55°C	
Size	129×61×39mm (with battery pack)	
Weight	282g (with battery pack, antenna)	
Receiving Part		
	Wide band	Narrow band
Sensitivity(12dB SINAD)	$\leq 0.25\mu\text{V}$	$\leq 0.35\mu\text{V}$
Digital Sensitivity	0.3uV/-117.4dBm (BER 5%) 0.7uV/-110dBm (BER 1%)	
Adjacent Channel Selectivity	≥ 70 dB	≥ 60 dB
Spurious Emission	≤ -57 dB	≤ -57 dB
Spurious Rejection	≥ 70 dB	≥ 70 dB
Blocking	84db	
Hum & Noise	≥ 45 dB	≥ 40 dB
Audio Distortion	$\leq 5\%$	
Audio Power Output	1000mW/16Ω	
Transmitting Part		
	Wide band	Narrow band
Power Output	VHF: 7/5/2.5/1W, UHF: 6/5/2.5/1W	
Modulation	± 5.0 KHz@25KHz	± 2.5 KHz@12.5KHz
Adjacent Channel Power	≥ 70 dB	≥ 60 dB
Hum & Noise	≥ 40 dB	≥ 36 dB
Spurious Emission	≤ -36 dBm	≤ -36 dBm
4FSK Digital Modulation	12.5KHz (data) 7K60FXD 12.5KHz (data+voice) 7K60FXE	
Audio Distortion	$\leq 5\%$	
Error rate	$\leq 3\%$	