



Specifications(BF-TM8500)

General	
Frequency Range	VHF: 136-174MHz; UHF: 350-390MHz/ 400-480MHz/ 450-520MHz
Channel Capacity	1024
Zones	64
Channel Spacing	12.5KHz
Working Voltage	DC13.8V ($\pm 15\%$)
Frequency Stability	$\pm 1.5\text{ppm}$
Antenna Impedance	50 Ω
Dimension	175(L)* 175(W)* 63(H) mm
Weight	1.51kg
Operating Temperature	-20 $^{\circ}\text{C}$ ~+70 $^{\circ}\text{C}$
Storage Temperature	-40 $^{\circ}\text{C}$ ~+80 $^{\circ}\text{C}$
Transmitter	
Power Output	VHF/UHF H:30W; VHF/UHF L:10W
4FSK Modulation	12.5KHz (data only): 7K60FXD; 12.5KkHz (data and voice): 7K60FXE
FM Modulation	12.5KHz: 8K50F3E
Modulation Limitation	+/- 2.5KHz @ 12.5KHz
FM Noise	-40dB
Spurious Emission	-36 dBm $\leq$ 1GHz; -30 dBm $\geq$ 1GHz
Adjacent Channel Power	$\leq$ -60dB
Frequency Response	+1/-3dB
Vocoder	AMBE +2 TM
Audio Distortion	$\leq 3\%$
Receiver	
Digital Sensitivity	5% BER: 0.25 μV
Analog Sensitivity	0.25 μV (12 dB SINAD)
Intermodulation	60dB
Adjacent Channel Selectivity	60dB
Spurious Response Suppression	70dB
FM Noise	-40dB
Frequency Response	+1/-3 dB
Audio Power	3W
Audio Distortion	$\leq 3\%$ (typical)
Conduction Radiation	-57dBm
GPS Precision	Horizontal Accuracy $\leq$ -10m (with good signal)
TTFF (first location) Cold Boot	< 1 minute(with good signal)
TTFF (first location) Hot Boot	< 10 seconds (with good signal)