



LH410/411/412

DMR Portable



Emergency Alarms
Advanced Encryption
Integrated High Precision GPS

The LH410/411/412 from BTI WIRELESS are DMR IP67 portable radios provide the advantages of superior audio quality, an outstanding coverage, a long-lasting battery life and more. The pseudo trunking and two timeslots technologies greatly increase spectrum efficiency without any extra costs. Where safety is concerned, the built-in RC4 encryption technology helps to maximize communication privacy while the delicate orange emergency button together with such functions as Man-down, Lone Worker and GPS helps to optimize your workers' safety.



KEY FEATURES

- Mandown, Lone Worker, Emergency Alarms
- IP67 for Dust & Water Protection
- Advanced Encryption with RC4 Technology
- DMO True 2-Slot, Allowing for 2 Talk Paths at 1 Frequency
- Transmit Interrupt/Radio Priority for Emergency or Urgent Communication
- Integrated High Precision GPS
- 2-Tone/5-Tone

GENERAL		
Frequency Range	VHF: 136~174 MHz; UHF: 350~390 MHz/400~480 MHz/450~520 MHz	
Channel Capacity	LH410: 512 LH411: 1024 LH412: 1024	
Zones	LH410: 32 LH411: 64 LH412: 64	
Channel Spacing	12.5 KHz/ 25 KHz	
Working Voltage	7.4V (± 20%)	
Battery Capacity	16/22 hours (2000mA)	
Frequency Stability	± 1.5 ppm	
Antenna Impedance	50Ω	
Dimensions (L x W x H)	57 x 32 x 119 mm 2.24 x 1.26 x 4.89 in	
Weight	LH410/LH412: 239 g 0.53 lbs	
(including battery pack)	LH411: 283 g 0.62 lbs	

TRANSMITTER		
Power Output	H: 5W; L: 1W	
4FSK Modulation	12.5 KHz (Data ONLY): 7K60FXD	
	12.5 KHz (Data and Voice): 7K60FXE	
FM Modulation	12.5 KHz: 8K50F3E	
	25 KHz: 16K0F3E	
Modulation Limitation	± 2.5 KHz @ 12.5 KHz	
	± 5 KHz @ 25 KHz	
FM Noise	-40dB	
Spurious Emission	-36dBm ≤ 1 GHz or $-30dBm$ ≥ 1 GHz	
Adjacent Channel Power	≤ -60dB	
Frequency Response	+1/-3dB	
Digital Vocoder	AMBE++	
Audio Distortion	≤ 3%	

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RECEIVER			ı
Digital Sensitivity	5% BER: 0.25	υV	
Analog Sensitivity	0.25μV (12dB	SINAD)	
Intermodulation	60dB		
Adjacent Channel Selectivity	60dB		
Spurious Suppression	60dB		
FM Noise	-40dBm		
Frequency Response	+1/-3dB		
Audio Power	1.5W		
Audio Distortion	3% (typical)		
Conduction Radiation	-36dBm		
GPS Precision	Horizontal Ac	curacy ≤ -10 m (with good signal)	
TTFF (First Location)	Cold Boot	< 1 minute (with good signal)	-
	Hot Boot	< 10 second (with good signal)	-

ENVIRONMENT SPECIFICATIONS		
Operating Temperature	-20 °C ~ +60 °C -4 °F ~ +140 °F	
Storage Temperature	-30 °C ~ +85 °C -22 °F ~ +185 °F	
Dust & Water Proof	IP67	
Humidity	Per MIL-STD-810 C/D/E/F Standard	
Shock & Vibration	Per MIL-STD-810 C/D/E/F Standard	

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