

LH515 DATASHEET



LH515

DMR Portable



Digital/analog Dual Modes
FEC & AMBE+2™ Vocoder
Longer Battery Life

The LH515 from SUNWAVE is a DMR entry level portable designed for traditional analog users who want to experience digital communications while staying within their analog budgets. With a loud and crystal-clear audio, a longer battery life, as well as higher spectrum efficiency delivered by a 12.5 KHz channel spacing, the device gives users a whole package of basic digital features and a smooth transition. The LH515 is an ideal analog replacement for small businesses, such as hotels, restaurants, supermarkets, etc.

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GENERAL	
Frequency Range	UHF: 350~390 MHz/400~480 MHz/450~520 MHz
Channel Capacity	32
Zones	2
Channel Spacing	12.5 KHz/ 25 KHz
Working Voltage	DC 7.4V ($\pm 20\%$)
Battery Average Working Time (5/5/90)	Digital 18 hours; Analog 13 hours
Battery Capacity	Real 1800mAh (Polymer battery)
Frequency Stability	± 1.5 ppm
Antenna Impedance	50 Ω
Dimensions (L x W x H)	35 x 59.7 x 114 mm 1.38 x 2.35 x 4.49 in
Weight	259 g 0.57 lbs (including battery pack)

TRANSMITTER	
Power Output	5W
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 -30dBm ≥ 1 GHz
Adjacent Channel Power	≤ -60 dB
Frequency Response	+1/-3dB
Vocoder	AMBE+2™
Audio Distortion	< 3%

RECEIVER	
Digital Sensitivity	5% BER: 0.25 μ V
Analog Sensitivity	0.25 μ V (12dB SINAD)
Intermodulation	65dB
Adjacent Channel Selectivity	60dB
Spurious Suppression	70dB
FM Noise	-40dBm
Frequency Response	+1/-3dB

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Audio Power	1.2W
Audio Distortion	3% (typical)
Conduction Radiation	-57dBm

ENVIRONMENT SPECIFICATIONS

Working Temperature	-20 °C ~ +60 °C -4 °F ~ +140 °F
Storage Temperature	-30 °C ~ +85 °C -22 °F ~ +185 °F
Water Proof	IP54

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