Hytera

ENHANCED BUSINESS LICENCE-FREE TWO-WAY RADIO

BP515LF

COMPACT, LIGHT, ROBUST LICENCE FREE, PMR446

DMR
DIGITAL MOBILE RADIO ASSOCIATION



www.hytera-europe.com

FEATURES TO KEEP YOU CONNECTED

DIGITAL AND ANALOGUE COMPATIBLE

Supports both digital and analogue modes, compatible with other PMR446 analogue and DMR Tier I radios. The BP515LF has extended range in class and features 256 channels, making group communication more flexible.

STURDY BODY

Wear-resistant and scratch-resistant body, standard IP54 dustproof and waterproof; large key design, flexible operation even with gloves.



DESIGNED FOR EASE OF USE



CLEAR AND LOUD AUDIO

Light and compact with a built-in intelligent noise reduction algorithm that eliminates unwanted background noise, and supports three-level noise reduction adjustment which is ideal for noisy environments. With a 3W high-power loudspeaker loudness of up to 90dBA, the sound is clear and loud with good howling suppression ability.

VOICE NOTIFICATION

Voice notification confirms the operation of programmable buttons or changing the channel.

EXPAND COVERAGE

The BP515LF has a high sensitivity receiving module and high-efficiency monopole antenna to enhance signal penetration and achieve better calls even in weak signal areas. In addition, the monopole antenna has a unique stable design that will not break and bend easily. This helps to enhance the antenna life time and also helps to increase the radiation efficiency compared to traditional antennas by 11% to extend radio communication distance.





TYPE-C CHARGING

The Type-C charging interface can be used with a mobile power supply to instantly replenish energy, which means it will work anytime, anywhere.

HIGH ENERGY BATTERY

The BP515LF uses international well-known brand batteries and still retains 80% of the initial battery capacity after 500 charge-discharge cycles. The radio can be charged from 0% to 100% in only 1.8 hours. After charging for 1 hour it can work for 10 hours. A 10W rapid-rate charger ensures safe and and reliable charging even in harsh work environments.

DELICATE APPEARANCE

The lightweight design makes it lighter and thinner than similar products and easy to carry and operate. The two-colour injection moulding makes it highly recognisable and able to suit the users' working needs.

TRUSTWORTHY QUALITY

Hytera has the world's largest professional communication production line, and manufactures each two-way radio in accordance with Industry 4.0 standards. Our strict supplier management system certification ensures each component meets the quality control requirements to ensure the consistency of product quality.



SPECIFICATIONS

General	BP515LF
Frequency Range	446.0 - 446.2 MHz
Channel Capacity	256
Zone Capacity	4
Zone Channel	16
Channel Spacing	12.5kHz
Operating Voltage	7.4V
Battery	1500mAh (Standard); 2200mAh (Optional)
Battery Life (5/5/90 Duty Cycle, High TX Power)	Analog: 17h (1500mAh), 22h (2200mAh) Digital: 18h (1500mAh), 24h (2200mAh)
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions (H x W x D)	115 x 55 x 29.5mm
Weight (with antenna&battery)	210g ± 5%

Receiver	
Sensitivity	Digital: 0.18μV / BER5% Analog 0.18μV (12dB SINAD)
Adjacent Channel Selectivity	TIA-603: 60dB@12.5kHz ETSI: 60dB@12.5kHz
Intermodulation	TIA-603: 70dB@12.5kHz ETSI: 65dB@12.5kHz
Spurious Response Rejection	TIA-603: 70dB@12.5kHz ETSI: 70dB@12.5kHz
Blocking	TIA-603: 80dB ETSI: 84dB
Hum and Noise	40dB@12.5kHz
Rated Audio Power Output	1W
Rated Audio Distortion	≤3%
Audio Response	+1to -3dB
Conducted Spurious Emission	<-57dBm

Transmitter	
RF Power Output	0.5W
FM Modulation	11K0F3E@12.5kHz
4FSK Digital Modulation	12.5kHz Data Only:7K60FXD 12.5kHz Data and Voice: 7K60FXW
Conducted/Radiated Emision	-36dBm < 1GHz; -30dBm > 1GHz
Modulation Limiting	± 2.5kHz@12.kHz
FM Hum and Noise	40dB@12.5kHz
Adjacent Channel Power	60dB@12.5kHz
Audio Response	+1 to -3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+2™

Environmental	
Operating Temperature	-30°C* to +60°C
Storage Temperature	-40°C to +85°C
ESD	IEC 61000-4-2 (Level 4) ±8kV (contact); ±15kV (air)
Dust and Water Intrusion	IEC 60529-IP54
Humidity	MIL-STD-810 G
Shock and Vibration	MIL-STD-810 G

*Radio only - Battery -20°C

ACCESSORIES

STANDARD ACCESSORIES:


Belt Clip


Battery


MUC Rapid-rate Charger


Power Adapter


Strap

OPTIONAL ACCESSORIES:


Adapter(USB)


Data cable PC143


C-Earset


Programming cable PC155


Battery 2200mAh



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