



ATLAS-Communications.ch

Presents the new Transceiver "PMR446" Digital and Analog

BelFone

BF-TD510LF



**WATER
PROOF
IP67**

BF-TD-516LF



FAMILY



RESCUE



HIKING



WORK



SPORT

BF-TD510LF

Waterproof according to the "IP67" specifications
Wasserdicht entsprechend die "IP67" Spezifikationen
E'tache selon les spécifications "IP67"

BF-TD516LF

Economic solution, simple, reliable and fast in versatile applications
Ökonomische Lösung, einfach, zuverlässig und schnell in vielseitigen Anwendungsfelder
Solution économique, simple, fiable et rapide dans des applications polyvalentes



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(Private Mobile Radio, 446 MHz) is a license-free service in the UHF radio frequency band and is available in most countries of the European Union, including Switzerland, for business and private use. The European governmental body has released the frequency band from 446 to 446.2 MHz for registration-free and toll-free radio traffic. This means that the purchase and use of these radios are free of bureaucratic formalities and restrictions! However, the simplicity of this solution, supported by extremely affordable prices, quickly overloaded the available channels!

In July 2015, the ECC decision (15) 05 doubled the number of analog channels to 16 by extending analog operation to the 446.1–446.2 MHz band previously used by digital DMR devices with effect from January 2016. As of January 2018, the number of digital channels has also doubled by expanding to the 446.0–446.2 MHz frequency band.

GENERAL	
Frequency range	446.0 – 446.2 MHz
Channel Capacity	32
Zones	2
Channel Spacing	12.5KHz/25KHz
Operating Voltage	DC 7.4V (± 20%)
Battery Capacity	1800mAh
Battery Life (5/5/90)	Digital 18Hours – Analog 13Hours
Frequency Stability	± 1.5ppm
Antenna Impedance	50Ω
Dimensions (L x W x H)	59.7 (L) x 35 (W) x 114 (H) mm
Weight	264g (Including Battery)
TRANSMITTER	
RF Output Power	0.5W
4FSK Modulation	12.5kHz Only Data : 7K60FXD 12.5kHz
FM Modulation	12.5kHz : 8K50F3E : 25kHz : 16KΦF3E
Modulation Limiting	+/- 2.5kHz @ 12.5kHz; +/- 5kHz @ 25kHz
FM Noise	-40dB
Conducted Emission	-36dBm ≤ 1GHz / -30dBm ≥ 1GHz
Adjacent Channel Power	≤ -60dB
Audio Response	+1/-3dB
Audio Distortion	3%
Digital Voice coder Type	AMBE3000
RECEIVER	
Digital Sensitivity	5% BER : 0.25 μV
Analog Sensitivity	0.25μV (12dB SINAD)
Intermodulation	65dB
Adjacent Channel Selectivity	60dB
Spurious Response Rejection	70dB
FM Noise	-40dB
Audio Response	+1/-3dB
Audio output power	500m W
Audio Distortion	3% (Typical)
Conducted Spurious Emission	-36dBm

FUNCTION AND OPERATIONS
Scan
Auto Scan
Monitor and Permanent Monitor
Message
One Touch Call
Talk Around
TX Power (Two levels)
Squelch Level
Emergency
Alone Worker
Time-Out-Timer (TOT)
Voice Encryption
VOX
Tone Alerts
Reject Stranger Call
TX Permission
Battery Saver
Low Battery Warning
CTCSS/CDCSS
Dual Capacity (Only for BD-TD-510LF)
Direct Mode
Radio Priority Based Interrupt (Only for BD-TD-510LF)

ACCESSORIES	
FOR BD-TD516LF	
BF-A5I	Real Li-Ion 1.800mAh CE Battery
BS806	Belt Clip
HL516H	Hook /Swivel Earpiece
HL516A	Acoustic Tube Earpiece
RX107	Programming Cable
BF-65F	Speaker
FOR BD-TD516LF / BD-TD510LF	
BF-B42	Desktop Charger
CA92I	Car charger
BF-B43	Multi charger (6 slot)
BF-CC5II	Carrying case
FOR BD-TD510LF	
B-A43	Real Li-Ion 2.000mAh CE Battery
BS506	Belt Clip
HL505	Hook /Swivel Earpiece
HL506	Acoustic Tube Earpiece
BF-65C	Remote Speaker Microphone
RX106	Programming Cable