BD518
BUSINESS DIGITAL RADIO

SIMPLE, ROBUST, CLEAR-VOICE

BD518

Hytera's BD518 two-way radio is the compact device that provides professional communications and easily operated . Today, communication tools are the key to improved efficiency. When we ask for clear voice, it means a reliable talk, easy-to-hear and understand. Long battery life helps you to maintain control. A rugged and robust device takes the worry out of communicating. High-performance but simple operation will make everything go easy.

Hytera understands customers' requirements and meets them all in one. With lightweight, easy-operation, excellent performance, long battery life and reliability. We redefine a business radio using Hytera digital technology and quickly responding to what you need.

EXCELLENT PERFORMANCE

With innovative design, BD518 has better performance than analog radios. Excellent reception ability makes talk range further extended. DMR digital radios with good performance and negligible interference, provide stable communication.

RUGGED AND RELIABLE

BD518 is designed and tested to meet Military Standards 810 G, including temperature shock, vibration, high & low temperature and humidity. IP54 dust and water-proof design guarantees the reliability in different environments. Based on TDMA technology, the radio can work longer, up to 22 hours in digital mode.

CLEAR VOICE

With digital encoding and correction technology, human voice is transmitted clearer without noise, even over greater distance. This is a new experience of improved audio quality.

POWER ON/OFF, VOLUME UP/DOWN

SPEAKER AND MICROPHONE
Provide clear receive and transmit audio.

CHANNEL KNOB
Support 16 channels that are easily changed.

PUSH-TO-TALK BUTTON
Easy to find and touch.

BD518

PROFESSIONAL AND SIMPLE TO USE

ANALOG & DIGITAL DUAL MODES

BD518 can support both analog and digital modes on the same hardware. You can switch between two operation modes easily and it helps you to communicate with analog radios.

ANALOG & DIGITAL AUTO DETECT

BD518 can detect the signal type when receiving a call, then automatically switches between analog mode and digital mode. During the call hang time, user can reply by using the push-to-talk. This is migration technology from analog to digital.

EXTENDED TALK RANGE

Based on Hytera innovative technology, your talk range is extended.

LONG WORKING TIME

Based on TDMA technology, BD5 series in digital mode can work upto 16 hours @1500mAh or 22 hours @2000mAh in 5-5-90 mode.

CLEAR VOICE

Excellent audio quality comes from the DMR digital technology, which makes communication more reliable.

RELIABLE AND DURABLE

BD518 is compliant with MIL-STD-810 G and IP54.

ANTI-INTERFERENCE

Adopted digital encoding and error correcting module, BD518 has the ability to avoid signal interference on the same frequency.

DMR SIGNALING

With DMR signaling, transmitting group call, private call and all call with PTT ID becomes quite easy.

REPEATER MODE OPERATION

Utilize a DMR Tier II repeater to extend your communication range.

VOICE ANNOUNCEMENT (only for BD502)

Channel number announcement helps you to switch channels quickly and correctly, even in operations with low visibility.

DUAL CAPACITY DIRECT MODE

In direct mode, you can have two voice calls simultaneously from DMR two time slots. This feature can be used to increase the radio capacity at no extra costs or frequency license.

VOX

This feature allows you to activate the radio microphone via your voices volume, and frees your hand from PTT.

SCANNING

Allow BD518 listening to communication activities on other channels.

ACCESSORIES

STANDARD ACCESSORIES

AN0435W09
Whip Antenna, 400-470MHz,① 16cm

BL1506
1500mAh Li-ion battery

CH10L23
BD5 standard drop-in single unit charger

BC08
Belt clip

RO03
Nylon hand strap

Power Adapter
input: 100-240VAC,
output: 12VDC/1A

US/UK/AU/EU/CHINA/JAPAN /KOREA

OPTIONAL ACCESSORIES

EHM15
D-style earpiece with in-line PTT & MIC
VOX switch

EHM18
C-style earpiece with in-line PTT & MIC
VOX switch

ESM12
Ear-bud with PTT on MIC
VOX switch

EAM12
Ear-bud with PTT on MIC
VOX switch

EAM13
2-wire surveillance earpiece
VOX switch

ACM-01
PTT&MIC-only with 3.5mm jack
Ip54

ES-01
Receive-only ear-bud

ES-02
Receive-only surveillance earpiece

EH-01
Receive-only C style earpiece

EH-02
Receive-only earhook speaker

PC76
Data programming cable

SM08M3
Remote speaker microphone
with 3.5mm audio jack

SM26M1①
Remote speaker microphone
Ip54 with 2.5mm audio jack

LCBN13
Universal nylon chest Pack

NCN011
Nylon carrying jacket

BL2018
2000mAh Li-ion battery

MCL19
BD5 multi-unit charger

AN0435H13
Stubby antenna,400-470MHz,② 9cm

CHV09
Vehicle adapter (Input: 11-25V DC, Output: 12V DC & 1A)

① SM26M1 can be used with earpieces EAS03,EHS17/18,ESS10.

② AN0435H13: 400-470MHz, 9cm
AN0435W09: 400-470MHz, 16cm

SPECIFICATION

General

Frequency Range	UHF:400-470 MHz
Channel Capacity	48
Zone Capacity	3
Channel Spacing	25/12.5KHz
Operating Voltage	7.2V
Display	BD518 without display
Battery	1500mAh (Li-Ion) 2000mAh (Li-Ion) Optional
Battery Life (5/5/90)	Analog/Digital: 12/16 hours (1500mAh) 16/22 hours (2000mAh)
Weight	255g,
Dimensions	110.2 x 59.5 x 34.5mm
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω

Receiver

Sensitivity (Digital)		0.18μV / BER 5%
Sensitivity (Analog)		0.18μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD)
Adjacent Selectivity	TIA-603	60dB @ 12.5KHz/70dB @ 25KHz
Spurious Response Rejection	TIA-603	70dB @ 12.5/25KHz
Inter-modulation	TIA-603	65dB @ 12.5/25KHz
Hum & Noise		40dB @ 12.5KHz 45dB @ 25KHz
Rated Audio Power Output		1W /2.5W
Rated Audio Distortion		≤3%
Audio Response		+1 ~ -3dB
Conducted Spurious Emission		<-57dBm

Transmitter

RF Power Output	UHF High power: 4W UHF Low power: 1W
FM Modulation	11K0F3E @ 12.5KHz 16K0F3E @ 25KHz
4FSK Digital Modulation	12.5KHz Data Only: 7K60FXD 12.5KHz Data & Voice: 7K60FXW
Conducted/Radiated Emission	-36dBm <1GHz, -30dBm >1GHz
Modulation Limiting	±2.5KHz @ 12.5KHz ±5.0KHz @ 25KHz
FM Hum & Noise	40dB @ 12.5KHz 45dB @ 25KHz
Adjacent Channel Power	60dB @ 12.5KHz, 70dB @25KHz
Audio Response	+1 ~ -3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE++
Digital Protocol	ETSI-TS102 361-1,-2,-3

Environmental

Operating Temperature	-30℃~ +60℃
Storage Temperature	-40℃~ +85℃
ESD	IEC 61000-4-2 (Level 4) ±8kV (Contact) ±15kV (Air)
Dustproof & Waterproof	IP54 Standard
Humidity	Per MIL-STD-810 G Standard
Shock & Vibration	Per MIL-STD-810 G Standard

All specifications are subject to change without notice due to continuous development.

Hytera
Respond & Achieve

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