BD615 BUSINESS DIGITAL RADIO

A Rugged Radio for Harsh Environments

Hytera's BD615 two-way radio inherits the excellent performance of Hytera TC6 series of analogue products, that provides professional communication which is easily operated, rugged and reliable. Today, communication tools are the key to improved efficiency. When we ask for clear voice, it means wanting a reliable, easy to hear and understand source of communication. Long battery life helps you to maintain control. A rugged and robust device takes the worry out of communicating. High performance combined with a simple user interface helps ensure ease of use.

Hytera understands their customer's requirements and provides this all in one solution. 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, the BD615 has better performance than analogue radios. Excellent reception sensitivity means the effective range for communication can be extended. The BD615 DMR digital radio has no interference, providing a stable communication connection.

RUGGED AND RELIABLE

The BD615 features a bold two-colour designed and tested to meet Military Standards 810 G, including temperature shock, vibration, high & low temperature and humidity. The IP66 dust-and-water-proof design guarantees the devices reliability across different environments.

CLEAR VOICE

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

PROFESSIONAL AND SIMPLE TO USE

ANALOGUE & DIGITAL DUAL MODES

BD615 can support analogue and digital modes on the same hardware. You can switch between two operation modes easily and it helps you to communicate with analogue radios.

EXTENDED TALK RANGE

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

LONG WORKING TIME

BD615 in digital mode can work up-to 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

BD615 is compliant with MIL-STD-810 G and IP66.

ANTI-INTERFERENCE

Adopted digital encoding and error correcting module, BD615 has the ability to avoid signal interference on the same frequency.

DMR SIGNALLING

With DMR signalling, 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

Channel number announcement helps you to switch channels quickly and correctly, even in blindness operation.

VOX

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

SCANNING

Allow BD615 listening to communication activities on other channels.

ACCESSORIES

STANDARD ACCESSORIES

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

BL1506
1500mAh Li-ion battery

CH10L23
BD50X standard drop-in single unit charger

BC08
Belt clip

RO03
Nylon hand strap

PS1044
UK Standard and EU Standard Switching Power Adaptor

OPTIONAL ACCESSORIES

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

EHM18-A
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

SM26M1 ①
Remote speaker microphone
Ip54 with 2.5mm audio jack

NCN019
A washable nylon chest pack, easy to carry.

NCN011
Nylon carrying jacket

BL2018
2000mAh Li-ion battery

MCL19
BD50X multi-unit charger

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

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

① SM26M1 can be used with earpiece EAS03

② AN0435H13: 400-470MHz, 9cm
AN0435W09: 400-470MHz, 16cm
AN0141H06: 136-147MHz, 17cm
AN0153H07: 147-160MHz, 17cm
AN0167H07: 160-174MHz,12cm
AN0160H13: 146-174MHz, 15cm
AN0153H08: 147-160MHz/1575MHz, 12cm
AN0167H07: 160-174MHz/1575MHz, 12cm

SPECIFICATION

General

Frequency Range	UHF: 400-470 MHz; VHF: 136-174 MHz
Channel Capacity	48
Zone Capacity	3
Channel Spacing	25/12.5kHz
Operating Voltage	7.2V
Battery	1500mAh (Li-Ion)
Battery Life (5/5/90)	Analogue/Digital: 11/17 hours (1500mAh)
Weight	240g
Dimensions	108×54×29mm
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω

Receiver

Sensitivity (Digital)		0.22μV / BER 5%
Sensitivity (Analogue)		0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD)
Adjacent Selectivity	TIA-603	65dB @ 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		0.5W
Rated Audio Distortion		⩽3%
Audio Response		+1 ~ -3dB
Conducted Spurious Emission		<-57dBm

Transmitter

RF Power Output	VHF High power: 5W VHF Low power: 1W 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 @ 12.5kHz
Adjacent Channel Power	60dB @ 12.5kHz, 70dB @25kHz
Audio Response	+1 ~ -3dB
Audio Distortion	⩽5%
Digital Vocoder Type	AMBE+2™
Digital Protocol	ETSI-TS102 361-1,-2,-3

Environmental

Operating Temperature	-30°C~ +60°C
Storage Temperature	-40°C~ +85°C
ESD	IEC 61000-4-2 (Level 4) ±8kV (Contact) ±15kV (Air)
Dustproof & Waterproof	Ip66 Standard
Humidity	Per MIL-STD-810 G Standard
Shock & Vibration	Per MIL-STD-810 G Standard

BD615, X=0, 2, 5,6 or 8, model number varies geographically. For details, please contact our regional sales representatives.

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

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