Specifications

Standards and Frequencies

DMR Analog FM	ETSI DMR Tier Ⅱ, Ⅲ 350-527 MHZ
TETRA	350-470 MHz
LTE	3GPP LTE Rel 10 FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B20/B26/B28 TDD-LTE: B38/B39/B40/B41
CDMA	CDMA 1xRTT BC0 CDMA2000 1xEV-DO BC0
WCDMA	B1/B8
TD-SCDMA	B34/B39
GSM	850/900/1800/1900MHz
Wi-Fi	802.11 b/g/n, 2.4GHz
NFC	13.56MHz
Dual BT	V4.2 LE+EDR
Positioning System	GPS, BDS, GLONASS
Sensors	Proximity Sensor Ambient Light Sensor 6-axis E-Compass Barometer Gyroscope Accelerometer

General Specifications

Dimensions (H x W x D)	139.5 x 68 x 25.3mm
Weight(with antenna & battery)	≤375g
AP Processor	Qualcomm 8-core, 2.0GHz
Memory	**Broadband** RAM: 3GB ROM: 32GB eMMC Expandable to 128GB with Micro SD card **Narrowband** Expandable to 16GB with Micro SD card
Ports	USB 2.0 20PIN Accessory/Charging Port
Top Display	1.0" 128x96
Main Display	4.0" 800x480 Capacitive, Touch screen, Gloves Proofed
Front Camera	13MP Auto Focus
Rear Camera	13MP Auto Focus
Operating Voltage	7.4V(Rated)

Battery

Standard	2900 mAh Li-polymer
Optional	4000 mAh
Battery Life	Standard Battery : 14hours Optional Battery : 20hours

Transceiver

Item	DMR/Analog FM	TETRA
Channel Spacing	25/20/12.5kHz	25kHz
TX Power	1W/4W	1W(class 4) & 1.8W(class 3L)
RX Sensibility	≤-121dBm	≤-112dBm(-116dBm typ.)
Inter-modulation	≥65dB	≥62dB
Blocking	≥84dB	50 kHz to 100 kHz ≥69 dB 100 kHz to 200 kHz ≥74 dB 200 kHz to 500 kHz ≥79 dB > 500 kHz ≥84 dB
Suppression of Spurious Response	≥70dB	≥64dB
Frequency Stability	±0.5ppm	±0.5ppm
Antenna Impedance	50Ω	50Ω
Audio Output	2W(Rated)	2W(Rated)
Audio Distortion	≤3%	≤3%
Microphone	NRR: 30dB(Static), 20dB(Non-static) AEC: > 60dB	NRR: 30dB(Static), 20dB(Non-static) AEC: > 60dB

Video and Imaging

Video File Types	3GPP(.3gp), MPEG-4(.mp4, .mov), WEBM(.webm), Windows Media(.asf,.wmv), RealMedia(.rmvb, .rm), MPEG-PS(.mpg, .mpeg), MPEG-TS(.ts), AVI(.avi), Matroska(.mkv)
Image File Types	JPEG(.jpg), GIF(.gif), PNG(.png), BMP(.bmp)
Video Recording Quality	Front Camera: 1080P HD up to 30 frames per second(fps) Rear Camera: 4K HD
Watermark	Video and imaging

Audio

File Types	MP3(.mp3), WAV(.wav), 3GPP(.3gp), MPEG-4(.mp4,.m4a), ATDS raw AAC(.aac), MPEG-TS(.ts), FLAC(.flac), MIDI(.midi, .xmf, .mxmf), RTTTL/RTX(.rtttl, .rtx), OTA(.ota), iMelody(.imy), Ogg(.ogg), Matroska(.mka), QCELP(.qcp), RealMedia(.ra), Windows Media(.wma), AC3(.ac3)
Input	Triple Mic Noise Suppression Wind Noise Suppression Echo Cancellation

Environment Performance

Dust and Water Proof	IEC 60529-IP67
Shock and Vibration	MIL STD 810 C,D,E,F,G
Operating Temperature	-20°C - 60°C
Storage Temperature	-40°C - 85°C

Main Features(DMR/Analog FM)

Work Mode	Voice Service		Apps
Digital Conventional Analog Conventional Digital Trunking Public Network	Private Call Group Call All Call Broadcast Call Emergency Call	Call Queuing Call Priority Forced Insert/Clear Down Phone Call	Contacts Messaging Camera Gallery Sound Recorder File Manager
Data Service	**User Security**		**Others**
Text Message Status Message MMS	Emergency Alarm Man Down Alarm		Positioning Scan and Roaming

Main Features(TETRA)

Work Mode	Voice Service		Apps
DMO TMO	Private Call Group Call All Call Broadcast Call Emergency Call	Call Queuing Call Priority Phone Call	Contacts Messaging Camera Gallery Sound Recorder File Manager
Data Service	**User Security**		**Others**
Text Message Status Message MMS	Emergency Alarm Man Down Alarm		Positioning

Optional

RVM with LCD

RVM

Remote Speaker Microphone

Convert Camera

4000mAh Smart Battery

Fast Charger

Wired Earset

MCU 6-unit Charger for Multi-mode Radio

MCU 6-unit Charger for RVM

Transparent Earset

BT Heart Rate Earset

Carkit

Standard Accessories

Battery (2900mAh Li-polymer)
Belt Clip
Charger
Standard Single Charger
Antenna
Rope
Color Circle
Package Kit

Your Hytera partner:

Hytera
Respond & Achieve

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Encryption features are optional and have to be configured separately. They are also subject to European export regulations.

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Hytera

Hytera Multi-mode Advanced Radio

www.hytera.com

New Convergent Solution

The Hytera Multi-mode Advanced Radio is a revolutionary device in the private radio network industry. The first of its kind to offer a truly convergent platform for critical voice and broadband data services, this innovative development is a significant milestone. The radio supports multi-mode communication in different scenarios, whether it's daily business operations or emergency response, broadband or narrowband, utilising the public or private network.

Offering the user a truly unified communication experience. The rich applications and high-level data security ensures the radio calmly handles any critical situation, improving co-operation and seamless communication.

The ergonomic design combined with the rugged chassis and touch-screen supports a new sensory experience to meet your diversified requirements. You can listen and see clearly, operate and transmit securely and utilise your improved situational awareness to respond and achieve quickly and effectively.

Product Overview

Sense

The Hytera Multi-mode Advanced Radio delivers excellent situational awareness, smartly detecting the surrounding environment, providing alerts and acquiring data in real time. Communicating continuously with back-end systems, you can improve your operational effectiveness with instant feedback and informed decision making. The device will become the extension of your senses, assuring your safety and enhancing your response with on-demand services.

Seamlesss

Whenever and wherever you are operating, the Hytera Multi-mode Advanced Radio is by your side offering a great voice communication experience. Seamlessly switching between networks, the intelligent device manages multiple communication modes, presented in a dedicated, user-friendly interface, to ensure that you can enjoy a seamless communication experience while the handset takes care of network transitions.

Supervision

Security of personnel and your voice or data transmissions is critical no matter the application. The Hytera Multi-mode Advanced Radio is designed to provide holistic secure control or your communications, adopting and effective link between the radio and back-end systems. There is no need to worry about data security, device loss, evidence management or command availability as the handset delivers a brand-new encrypted control system.

Interactive Design Features

Mission Critical UI Design

One hand operation

Quick press to view critical information

Rich information on Home page, customize your favorites

Keys

Multi-functional Knob (press and rotate)
Switch between volume, channel and contacts

Smart Key
Function varies from scenes

PTT
Push to talk

Front & Rear Dual Camera for Better View

Front and rear 13MP cameras support 4K HD video

Screen Design

Dual-screen for power saving

Leaning Top Screen
Clear enough from multi-view

Rugged and Durable

IP67
1 meter anti-dropping
MIL-STD-810 C,D,E,F,G

Screen Reliability

Gorilla Glass III
Scratch-resistance, anti-impact, anti-fingerprint and oil resistance

Industrial LCD
Service life over 30,000h

Diverse Connections

Wired connection: accessory pins

Wireless connection: Wi-Fi, NFC and BT

Sensors: proximity sensor, ambient light sensor, 6-axis E-compass, barometer sensor, gyroscope, accelerometer sensor

Positioning systems: GPS, BDS, GLONSS

Function & Technical Features

Open Secondary Development Interface to Enrich Services and Applications

Provides application development kit (ADK) based on the radio for the third party to customize their own applications. Consequently, it would integrate all mobile resources to build a modern work platform. Now it is not only a radio, but a smart mobile device.

Government and Public Security

Public Utilities

Airport

Port

Metro and Railway

Broadband and Narrowband Converged

The narrowband switches between digital and analog, the broadband supports all mobile networks, and the two systems collaborate to guarantee a smooth communication.

Clear and Pleasant Critical Voice

The radio adopts advanced audio technology, such as multi-mic noise suppression, acoustic echo cancellation and wind noise suppression, to ensure the receiver hear clear voice even in noisy environment.

Multiple Security Assurances

Support authentication, software and hardware encryption to prevent voice and data theft. The management system real-time monitors the radio. Radio stunning, killing or data erasing are available in case of abnormity.

Quick Charging

The smart battery supports a charging which is three times faster than the common one: 80% in 30 minutes, while 100% in one hour.