

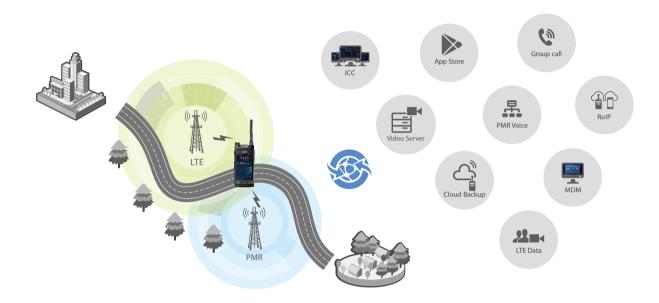


New Convergent Solution

The Hytera Multi-mode Advanced Radio is a revolutionary device in the private radio network industry. The first of its kind is 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 ensure the radio calmly handles any critical situation, and improve 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 an extension of your senses, assuring your safety and enhancing your response with on-demand services.



Seamless

Whenever and wherever you are operating, the Hytera Multi-mode Advanced Radio is by your side to offer 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 radio 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 an 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 radio delivers a brand-new encrypted control system.

Interactive Design Features



One hand operation

Quick press to view critical information

Rich information on the home page, customized favourites



Diverse Connections

Sensors: 6-axis E-compass, barometer, gyroscope, accelerometer, proximity sensor, Ambient light sensor
Positioning systems: GPS, BDS, GLONASS
Wired connection: accessory pins; Wireless connection: WLAN, NFC and BT

Technical Features

Open Secondary Development Interface to Enrich Services and Applications

An Application Development Kit (ADK) is available to third parties to allow organizations to customize their own applications. Consequently, all mobile resources can be integrated into this single work platform. Now it's more than just a radio, it's your 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.



Crystal Clear Critical Voice

The radio adopts advanced audio technology, such as triple mic noise suppression, acoustic echo cancellation and wind noise suppression, to ensure the user can receive and transmit clear voice communications even in noisy environments.



Multiple Security Assurances

The device supports authentication and both software and hardware encryption to prevent voice and data theft. The management system monitors the radio in real-time and the device can be stunned, killed, or data erased if there is any user abnormality.



Quick Charging

The latest smart battery technology delivers quick charging, 3 times faster than regular batteries. 80% of the capacity can be charged in just 30 minutes, while full charge can be achieved in 1 hour.



The Hytera Smart Mobile Device Management (MDM) fully utilizes broadband capacity to facilitate your device management.

By traversing a variety of broadband networks, WLAN, 4G and LTE, this solution conducts batch programming, upgrades, permission control and data backup. As well as device administration and control, the Hytera MDM also supports accessory management such as Remote Video Microphone(RVM) whilst also being compatible with your Hytera narrowband radios, improving traditional device management.

As users lead with wireless devices and supplement with wired solutions, in an increasingly broadband based network architecture, the Hytera MDM solution delivers concurrent operation, flexible remote-site control and timed push actions to greatly save operational time and costs for device management.

The Hytera MDM provides a full-life-cycle asset management system. The administrator can track the working status of any device across the fleet, determining critical device and user information 24/7.

Product Concept

Batch

Efficiently manage multiple devices based on network concurrency.

Automatic

Set up task schedule for unattended operation to realize timed task automation and automatically create task report.

Traceable

Manage the radio full-life-cycle to track its configuration change. Even the radio is not at hand, its information can be tracked.

Compatible

Support both multi-mode radio and narrowband radio to realize an all-in-one management.

Product Features

Efficient Batch Programming and Upgrade

Manage large quantities of radios concurrently to improve programming and upgrade efficiency.

Effective Data Collection and Security Analysis

Collect various radio data including parameters, configuration and diagnosis log to monitor radio and eliminate security threats.

Rich Third Party APIs

Provide the third party APIs for various service extensions such as cloud storage, streaming media, and interfacing with other systems.

Quick Configuration and OTAP Programming

Utilize the high-speed and reliable message channel between the radio and console to enable or disable multiple settings such as GPS, BT, WLAN and NFC, and conduct OTAP of the radio through broadband.

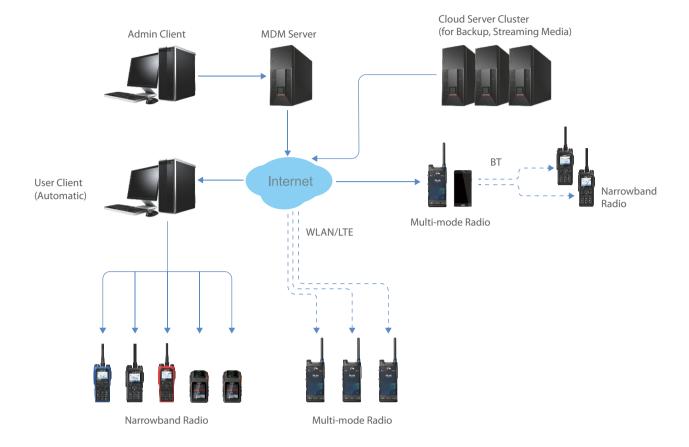
Multiple Group and Permission Control

Support multiple roles and hierarchical group management to clearly classify the permission and work range for better collaboration.

Diversified Services

Besides programming and upgrades, the system also controls application installation and uninstallation, license authorization, remote notification to the radio and file transmission. If the radio is compromised, the system is able to remotely erase sensitive data to avoid information leakage.

System Topology



System Functions



Asset

Asset management to set up archives for each radio.



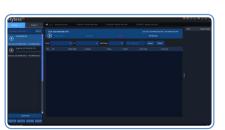
• Programming Template

Programming template management to create parameter sets for radio configuration.



Task Gantt Chart

Visible Gantt chart to clearly display task progress.



User Client

Unattended user client to process tasks and manage radios by batch, concurrently.



• Role Permission

Different roles for administrators to conduct different management services.



Report

Generate reports for all-round tasks statistics and tracking.

Specifications

Standards and Frequencies

| ETSI DMR Tier II , III 350-527 MHZ 350-470 MHz FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B20/B26/B28 TDD-LTE: B38/B39/B40/B41 CDMA 1xRTT BC0 CDMA2000 1xEV-DO BC0 B1/B8 B34/B39 | |
|--|--|
| FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B20/B26/B28 TDD-LTE: B38/B39/B40/B41 CDMA 1xRTT BC0 CDMA2000 1xEV-DO BC0 B1/B8 | |
| TDD-LTE: B38/B39/B40/B41 CDMA 1xRTT BC0 CDMA2000 1xEV-DO BC0 B1/B8 | |
| CDMA2000 1xEV-DO BC0 B1/B8 | |
| | |
| B34/B39 | |
| | |
| 850/900/1800/1900MHz | |
| 802.11 b/g/n, 2.4GHz | |
| 13.56MHz | |
| V4.2 LE+EDR | |
| GPS, BDS, GLONASS | |
| 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: 3ZGB 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 Compatible | | |
| 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 : 14h 12h voice(5:5:90)+2h video Optional Battery : 20h 18h voice(5:5:90)+2h video |

Transceiver

| Item | DMR/Analog | TETRA | |
|-------------------------------------|---|--|--|
| Channel Spacing | 25/20/12.5kHz | 25kHz | |
| TX Power | 1W/4W | 1W(class 4) & 1.8W(class 3L) | |
| RX Sensitivity | ≤-121dBm | Static: ≤-116dBm(-117dBm typ.) Dynamic: ≤-106dBm(-109dBm 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), QuickTime(.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/LTE)

| Work Mode | Voice Service | | Apps |
|---|---|---------------------------------------|--|
| Digital Conventional Analog Conventional Digital Trunking Public Network | Private Call Group Call All Call Broadcast Call Emergency Call Forced Insert/Clear | 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 | | Positioning Scan and Roaming |

Main Features (TETRA/LTE)

| Work Mode | Voice Service | | Apps |
|---------------------------------------|--|---|--|
| DMO TMO Public Network | 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 | | Positioning |

Optional Accessories



Remote Video Speaker Microphone(RVM)



Remote Video Speaker Microphone(RVM) with LCD



Remote Speaker Microphone



Covert Camera



4000mAh Smart Battery



Fast Charger



BT Heart Rate Earpiece



MCU 6-unit Charger for RVM



Transparent Earpiece



Wired Earset

Standard Accessories

Smart Battery (2900mAh Li-polymer) Belt Clip Power Adapter Antenna Color Circle Charger











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