Multi-Mode Advanced Radio

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 dearly, operate and transmit securely and utilise your improved situational awareness to respond and achieve quickly and effectively.

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

Mission Critical UI Design
- One hand operation
- Quick press to view critical information
- Rich information on the home page, customized favourites
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.

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.

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**Hytera Smart MDM - Smart and Secure, With Total Control**

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.

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**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.

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**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.
Asset management to set up archives for each radio.

Task Gantt Chart

Visible Gantt chart to clearly display task progress.

Role Permission

Different roles for administrators to conduct different management services.

Programming Template

Programming template management to create parameter sets for radio configuration.
User Client

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

Report

Generate reports for all-round tasks statistics and tracking

**Specifications**

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<td>TD-SCDMA</td>
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</table>
WLAN | 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  

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<th>General Specifications</th>
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</table>
| Dimensions | (H x W x D): 139.5 x 68 x 25.3mm  
Weight (with antenna & battery) | ≤378g  
AP Processor | Qualcomm 8-core, 2.0GHz  
Memory | Broadband RAM: 3GB Memory 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" Color: black & white  
Main Display | 4.0" 800x480 Capacitive, Touch screen, Gloves Compatible  
Front Camera | 13MP Auto Focus  
Rear Camera | 13MP Auto Focus  
Operating Voltage | 7.6V(Rated)  

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<tr>
<th>Battery</th>
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| 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  

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### 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 (.mid, .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-810G

#### Operating Temperature
- -20°C to +60°C

#### Storage Temperature
- -30°C to +80°C

### Main Features (DMR/Analog/LTE)

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<td>Digital Trunking</td>
<td>All Call</td>
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<td>Forced Insert/Clear Down</td>
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### Main Features (TETRA/LTE)

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### Optional Accessories
Standard Accessories

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

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