

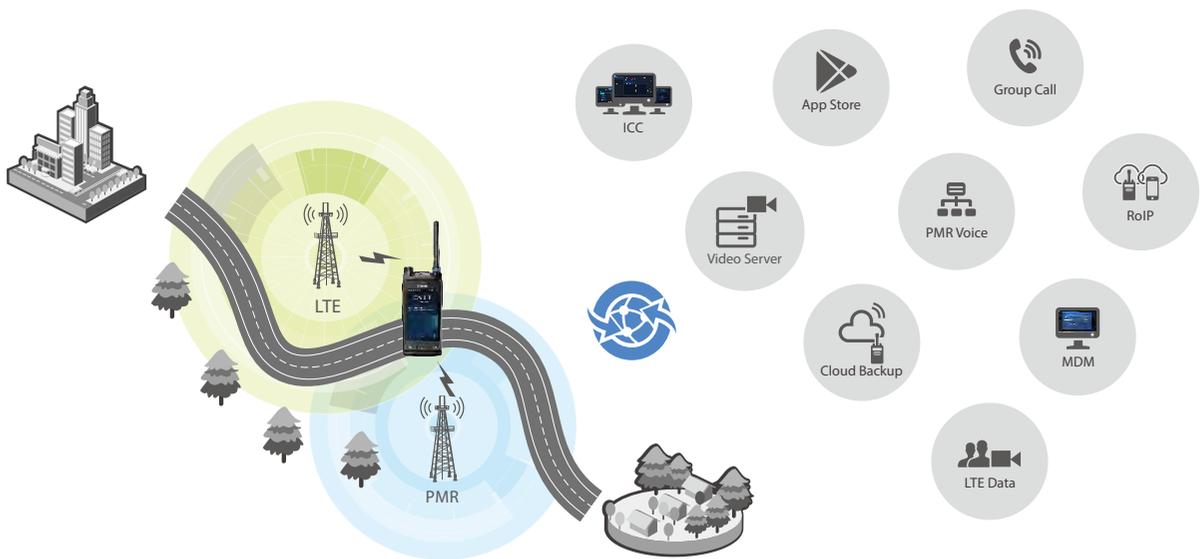
PDC760 Multi-mode Advanced Radio



New Convergent Solution

Hytera's new Multi-mode Advanced Radio is a revolutionary device that was designed with the private radio network industry in mind. The first of its kind to offer a truly convergent platform for both critical voice communications and broadband data services. This innovative development marks a significant milestone within the two-way radio communications industry. The PDC760 supports multi-mode communications across a wide range of scenarios, whether its daily business operations or emergency response, broadband or narrowband, public or private networks, Hytera's multi-mode advanced radio can meet all your communications needs.

The PDC760 offers users a unified communications experience with a rich selection of applications and high-level data security; the radio is built to handle any critical communications situation and improve operational efficiency. The ergonomic design combined with a rugged chassis and touch-screen display support a new sensory experience to meet a diverse set of communications requirements that allows users to improve situational awareness to respond and achieve quickly and effectively.



Product Overview



Senses

The Hytera Multi-mode Advanced Radio delivers excellent situational awareness by 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, Hytera Multi-mode Advanced Radio is always your best communication assistant and brings you great voice communication experience. With intelligent seamless network switch among multiple communication modes, the radio meets on-demand requirements to let you enjoy seamless and fresh communication experience without the limitation of time and space.



Supervision

In the public safety and utility industries, communications and data security is always a top priority. Hytera's PDC760 multi-mode advanced radio is designed to provide complete, secure control of your communications system. The radio offers effective linkage control between the radio and back-end systems and utilizes multiple encryption and authentication technologies to fully protect the radio system, data storage, data transmission and device control, effectively preventing a malware attack, illegal operation and data interception.

Interactive Design Features

Mission Critical UI Design
One Hand Operation
Smart Keys & Programmable Keys
Intuitive User Interface
Rich Information on Home Page
Customized favorites

User-friendly Keys

Multi-functional control (press and rotate)
Switch between volume & channels
(in conventional mode)
Switch between volume & contacts
(in trunking mode)

Smart key
Function varies depending on applications

PTT
Easy to use
Large button

Programmable keys

Rugged and Durable Structure

IP67
1.2 metre drop test
MIL-STD-810G

Quick Identification

Interchangeable color ring
to quickly identify radio

HD Camera

Front & rear 13MP cameras
Rear camera supports 4K HD video

Dual-screen Design

Dual-screen for power saving
Quick-view top screen
Clear information at a glance from
multiple angles

Reliable Screen

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

Industrial LCD
Service life over 30,000h

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



Highlights



Broadband and Narrowband Converged

Narrowband can switch between digital and analog operation while broadband supports all available mobile networks. The two systems collaborate to guarantee smooth communications.



Crystal Clear Critical Voice

Advanced audio technology, such as triple mic noise suppression, acoustic echo cancellation and wind noise suppression, to ensure you 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

Equipped with the latest in smart battery technology, the PDC760 delivers quick charging, three times faster than regular batteries. 80% of the battery's capacity can be charged in just 30 minutes while a full



Open APIs to Enrich Services and Applications

Secondary Development Kits (SDKs) are available to third-party developers allowing organizations to customize applications to meet the unique demands of their users. Consequently, all mobile resources can be integrated into this single work platform allowing for customization that turns your PDC760 multi-mode radio into your smart mobile device.



Customized Network Priority

You can set priorities of varied networks based on your requirements. If there are services from different networks at the same time, the radio first processes the one from the network with higher priority. The service from the network with higher priority can interrupt the one from the network with lower priority. It guarantees that you can pick up every important call.

Applications

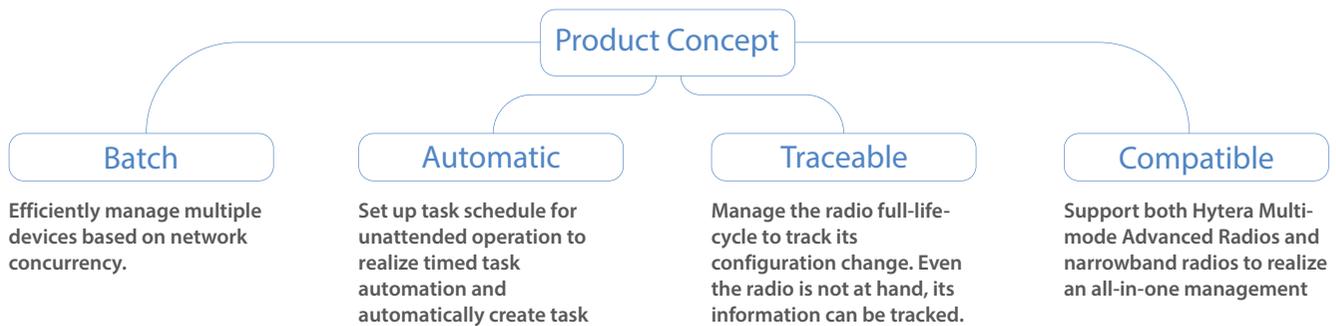


Hytera Smart MDM – Efficient, Smart and Secure, With Total Control



The Hytera Smart Mobile Device Management (MDM) fully utilizes broadband capacity to facilitate your device management. The Hytera MDM is a mobile device management system that configures and manages Hytera Multi-mode Advanced Radios efficiently. It offers batch programming, upgrade, encryption, permission control, App and file push through WLAN and LTE network. Through a wireless network, the Hytera MDM solution can deliver concurrent operations, flexible remote-site control, and timely push actions to improve operational efficiency and reduce costs associated with device management.

The Hytera MDM also provides a full-life-cycle asset management system. The administrator can remotely track the working status of any device anywhere and anytime.



Highlights

Efficient Batch Programming and Upgrade

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

Effective Data Collection and Security Analysis

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

Rich Third Party APIs

Provide 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 the console to enable or disable multiple settings such as GPS, BT, WLAN and NFC, and conduct OTAP of the radio through broadband.

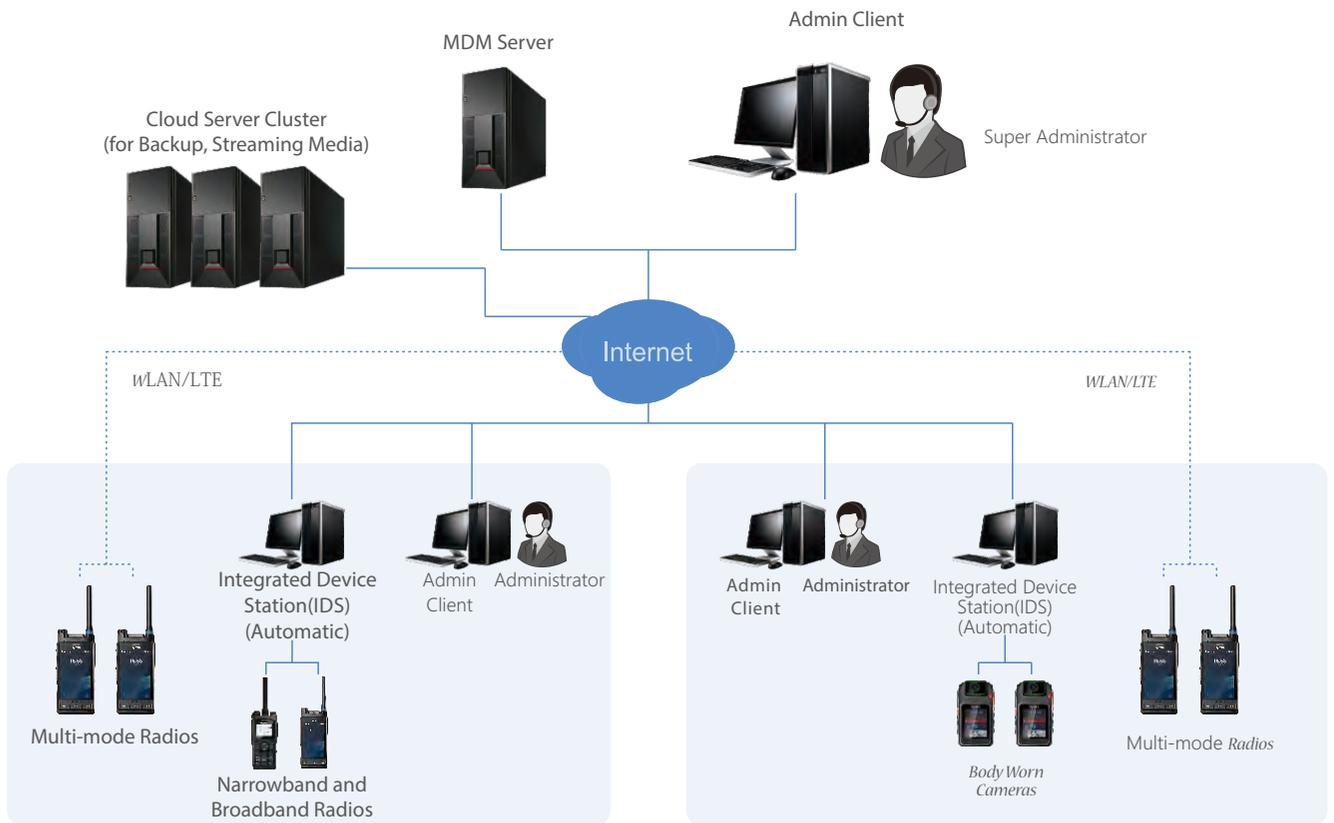
Multiple Group and Permission Control

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

Diversified Services

Control 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

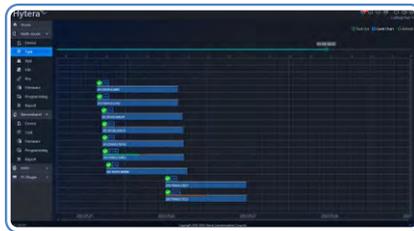


System Functions



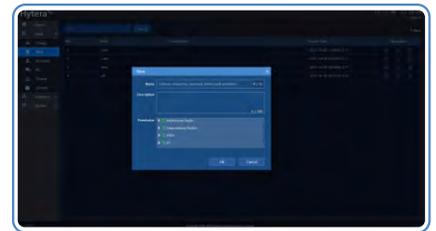
• Asset

Asset management to set up archives for each radio.



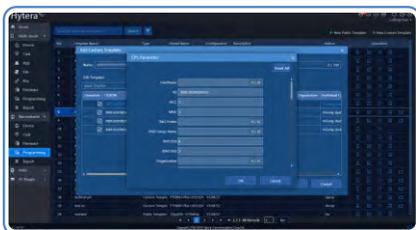
• Task Gantt Chart

Visible Gantt chart to clearly display task progress.



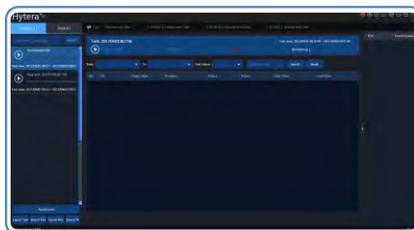
• Role Permission

Different roles for administrators to conduct different management services.



• Programming Template

Programming template management to create parameter sets for radio configuration.



• IDS

Unattended work station to process tasks and manage radios by batch concurrently.



• Report

Generate reports for all-round tasks statistics and tracking.

Specifications

Wireless Data Communication

DMR Analog	ETSI DMR Tier 1, 2 UHF: 350-527 MHz VHF: 136-174 MHz
LTE	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
WLAN	802.11 b/g/n, 2.4GHz
NFC	13.56MHz
Dual BT	V4.2 LE+EDR
Positioning System	GPS, GPS/BDS, GPS/GLONASS

General Specifications

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 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)
Sensors	Proximity Sensor Ambient Light Sensor 6-axis E-Compass Barometer Gyroscope Accelerometer

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

Channel Spacing	25/20/12.5kHz
TX Power	UHF: 1W/4W VHF: 1W/5W
RX Sensitivity	Analog: 0.3µV(12dB SINAD) 0.22µV(12dB SINAD)(Typical) 0.4µV(20dB SINAD) Digital: 0.3µV/BER5%
Inter-modulation	TIA-603: 70dB@12.5/20/25kHz ETSI: 65dB@12.5/20/25kHz
Blocking	84dB
Suppression of Spurious Response	TIA_603: 70dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Audio Output	2W(Rated)
Audio Distortion	≤3%
Microphone	NRR: 30dB(Static), 20dB(Non-static) AEC: > 60dB
Digital Vocoder Type	AMBE++, NVOC

Android Software

Operating System	Android 7.0
UI	HUI, Customized user interface

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 G
Operating Temperature	-20°C +60°C
Storage Temperature	-30°C +80°C

Rich Features and Applications

Work Mode	Voice Service	Security	Apps
Digital Conventional Analog Conventional DMR Trunking MPT Trunking Public Network	Pgroup Call Private Call All Call Broadcast Call Emergency Call Public Phone Call PSTN/PABX Call Alert Call	Alert Call Remote Monitor Priority Interrupt Override/Interrupt Call Queuing Call Priority	Emergency Alarm Stun/Kill/Revive Radio Check Man Down Lone Worker Authentication Over the Air Encryption Analog Scrambler
Data Service	Audio	Others	Contacts Messaging Camera Gallery Sound Recorder Files Documents Notes Calendar Clock Calculator Browser Compass
Text Message Status Message MMS Clarity Transmission Data Query	Microphone Gain Control Audio Feedback Suppression Microphone Path Set Speaker Path Set Three-band Equalizer VOX	Positioning Scan and Roaming Covert Mode	

Optional Accessories



Body Worn Camera



Body Worn Camera with LCD



Remote Speaker Microphone



Covert Camera



4000mAh Smart Battery



Carkit



Fast Charger



Multi-unit Charger



BT Heart Rate Earpiece



Transparent Earpiece



Wired Earset

Standard Accessories

Smart Battery (2900mAh Li-polymer)

Belt Clip

Power Adapter

Antenna

Color Ring

Charger

Strap



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