

Dual-mode Rugged Radio PTC760

ALL IN ONE ALL IN CONTROL BUSINESS CRITICAL STANDBY



Product Introduction

Mission-critical voice is the most crucial need of PMR users, and yet their demands on multimedia services, quick access to key data and mobile office automatic are gradually increasing. Today voice-only can no longer serve users with high efficiency and completed information in patrol and field enforcement. Those users are looking forward to a radio that provides real-time information follow and check anytime and anywhere.

Combining a mission-critical radio and a smartphone into a single device, the PTC760 has a large screen and powerful application adaptability. It not only ensures the reliability of mission-critical voice communication, but also matches the needs on high speed transmission, e.g. video talk, real-time video sending and other integrated apps, making the very first move from single voice to multimedia services.



Key Benefits

— Device convergence

☒ Dual-screen

📷 Dual HD cameras

📶 Full TETRA services

📶 Radio over IP

🚗 Vehicle installation

⏸️ Dedicated knob

🌐 Prevalent cellular bands

📱 Dual-SIM

📶 Remote control

✅ GMS certification

Business-Critical Focused Design

The intuitive user interface used across the PTC760 enables quick access to critical information, makes it easy to use and also helps the users react faster when they are in emergency. The large screen and widget layout (self-defined) enable at-one-glance access to key information and instant operation to the business critical.





Light and Compact

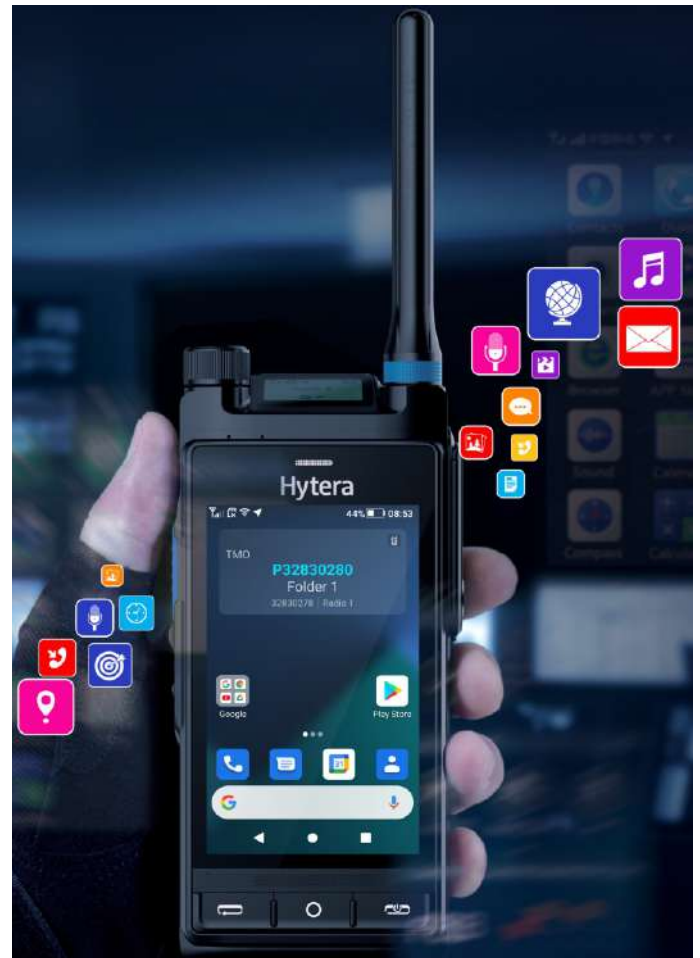
Combining a mission-critical radio and a smartphone into a single device, the PTC760 is 28% lighter than the two devices. It is completely TETRA and Android functional for mission-critical communication, photo taking, video and app integrity.

Fusion Communication Ready

The Hytera PTTconnect solution integrated PTC760 supports communication with narrowband radios over broadband, extending the coverage to where the narrowband network is not available. The RoIP solution allows PTC760 to automatically select available or better network, register with narrowband and broadband networks with the same number to access different services, and use the same UI with that of the narrowband service. Users now can enjoy seamless fusion communication and get improved efficiency.

Powered by Android

The android powered PTC760 has various custom apps, e.g. the Navigator that provides routine planning and online navigation. The standard android API enables diverse adaptability and customization of different industry apps to build up a mobile office automatic platform. Please contact Hytera for detailed customization.





Intuitive Large Screen

The PTC760 has a 4-inch large screen with widget layout, which is intuitive to obtain critical information and easy to use.

Dual HD Cameras

Both the front and the rear cameras are 13MP. The entirely new cameras offer high quality images and support 4K video taking. Benefiting from high definition camera, video talk is also available in mission critical.

Powerful Broadband Voice Services

The Hytera HyTalk MC or Hytera HyTalk Pro solution integrated PTC760 provides broadband voice services to extend the radio coverage. Hytera HyTalk MC is a PMR characterized talk solution deployed over public networks to provide stable and reliable PTT communication, high-speed data applications and multimedia services. Hytera HyTalk Pro is another solution that provides high-quality audio and video services, instant messaging. Enjoy the efficiency of audio and live videos over broadband delivered by PTC760.





Vehicle Installation

Install the car-kit in the vehicle to fix the radio and set up a mobile platform with a suite of accessories.

All-round Security Assurance

Multiple defensive mechanisms have been built to the PTC760 to safeguard your communications. Signature authentication and preconfigured Se Android security strategy utilized to ensure the system security. All static user data is full-disk encrypted, while E2EE and AIE are used to secure data transmission. The management to PTC760 is based on industry standards to make the radio in complete control.



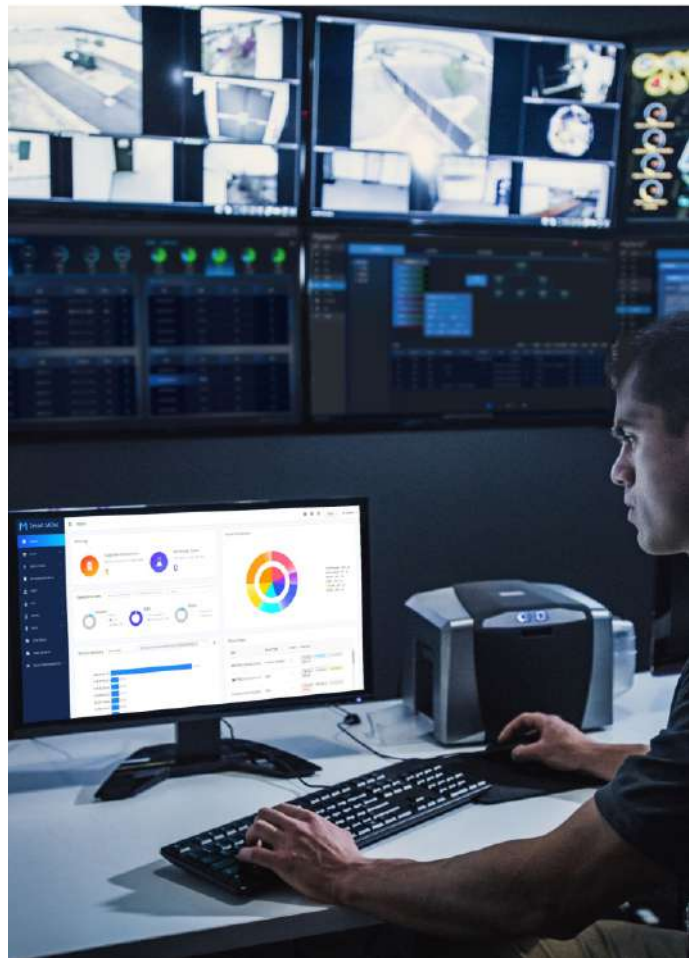


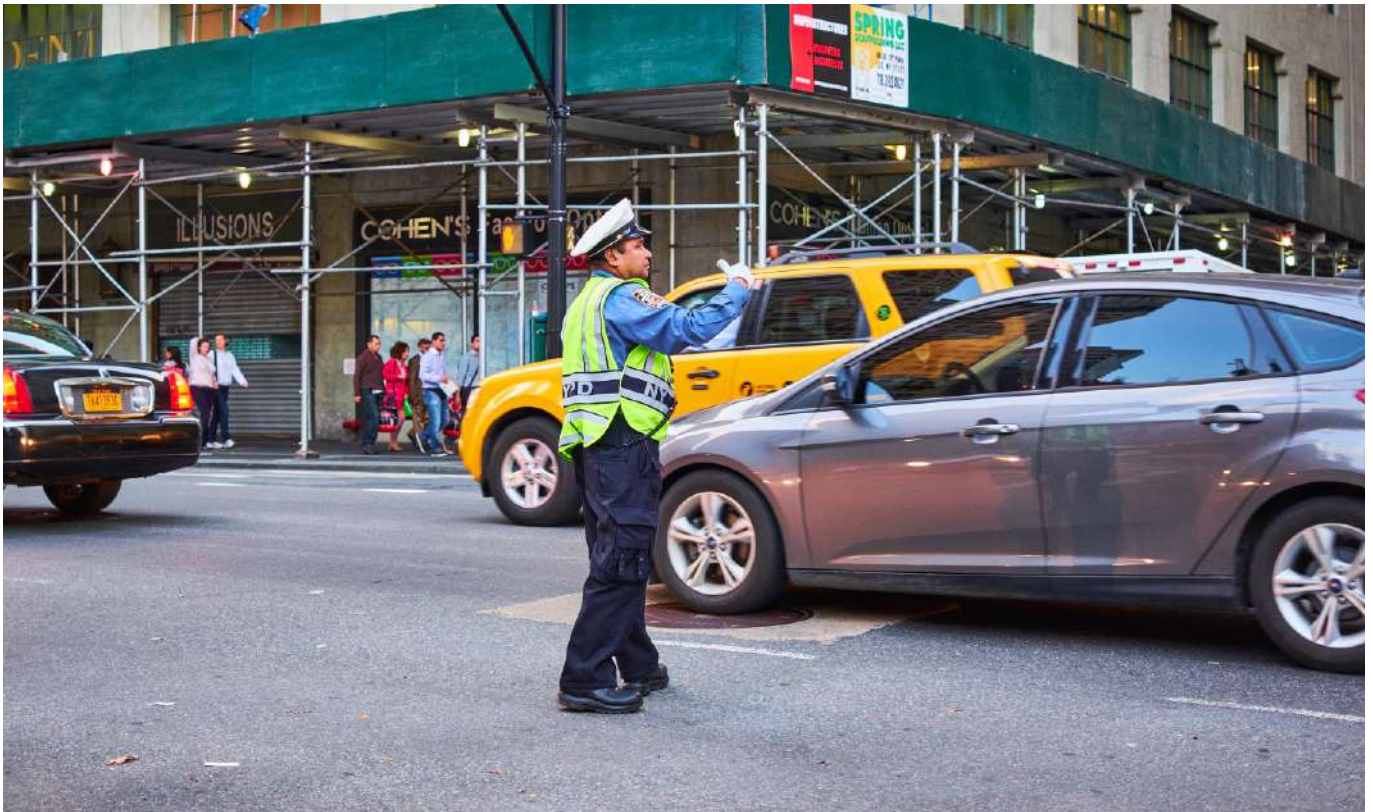
Flexible Connectivity

Support wired PIN connection and connections over WLAN, BT and NFC to a wide range of audio accessories, making it optimum for the frontline operatives to use their radios with higher efficiency.

Complete Control via Smart MDM

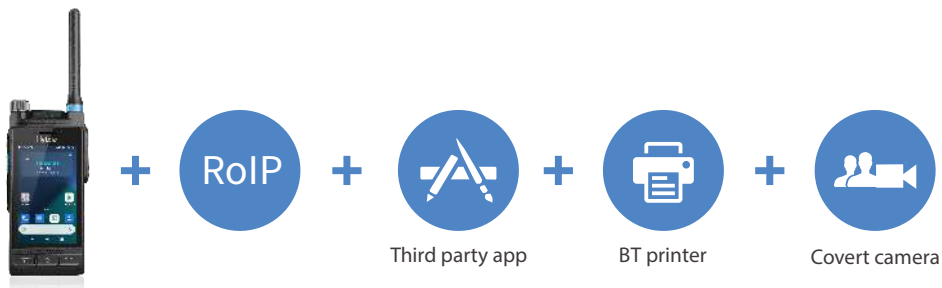
Smart MDM is the system to remotely manage your PTC760 in batch. It takes 5 minutes only to wirelessly program 100 radios, which saves 95% of time compared with wired programming. Stay in complete control over the radio with many other features for example remote firmware upgrades, multi-command, feature and application permissions, over-the-air wipe and lock capability, data backup and recovery.





Well-informed Decision for Frontline

Although mission-critical voice is the priority of all priorities to public security users, the benefits of dual-mode rugged radio to them are far more.



Adaptive to 3rd Party Accessory

The frontline officers check the vehicle and driver information through the custom third party app installed on the radio. Connect the specific accessory like BT printer for field printing the ticket.

Real-time Audio and Video

Equip the radio with a covert camera to provide real-time audio and video to tell and show the situation for better-informed quick decision.

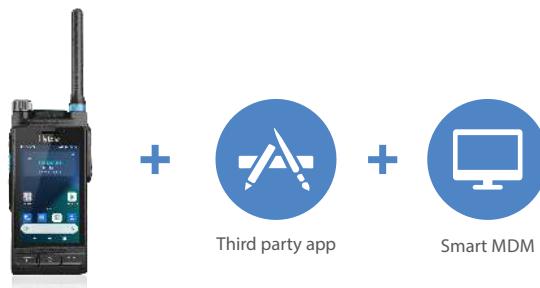
Broadband Ready

The dual-mode rugged radio is TETRA and Android functional so that officers are no longer overburdened by too many device, and no need to frequently change the device for different missions. It uses broadband resources, for example, WLAN, telephone call, RoIP solution, to cover those areas out of narrowband, enabling the user to keep in touch wherever he moves to.



Better Organization Efficiency

Been coupled with a package of intelligences, the PTC760 radio serves the airport staff with more considerate and more efficient management to help the professionals provide high level of customer services.



Mobile OA Available

The PTC760 allows the airport professionals to install their customized apps, such as W/O, flight check, airline dispatching, that use narrowband path as well as broadband path to increase their productivity. These apps enable the professionals to distribute and follow up tasks in a standard operating procedure, share information and interact online.

Control by Batch

Using Smart MDM to remotely manage the radio fleet not only makes the device ready in the shortest time, but also minimizes the manpower input and organizational disruption, enabling the professionals 24-hour on call to maintain the high level of customer services.



Always Focus on the Business

Besides the mission-critical voice communication, the dual-mode rugged radio is using both broadband and narrowband paths to ensure the real-time data report about the inspection.



App Data over Broadband and Narrowband

The app on dual-mode rugged radio can use the narrowband path to transmit the app data in areas out of broadband coverage, ensuring the real-time patrol and check data upload.

Single One Device for All Needs

The PTC760 provides mission-critical voice communication, and installs third party apps as well. Users no longer need to carry several devices and frequently change the device.

Accessories

Standard Accessories



Smart Battery BP2901
(2900mAh Li-polymer)



Power Adapter



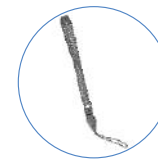
Charger
CH20L08



Belt Clip
BC30



Antenna



Strap
RO04

Optional Accessories



Convert Camera
VM220-N2



BT Earpiece
EHW08



Wired Earset
EHN33



Receive-Only Earloop
EH-01/EH-02



Wireless PTT
POA121



Remote Speaker
Microphone
SM32N1



USB Connector
POA186



4000mAh Smart Battery
BP4001



Multi-unit Charger
MCA20



Programming Cable
PC93



Carkit
CK08

Main Services

Work Mode	Voice Service	Data Service	Apps	Security	Audio	Others
Public Network	Private Call	Text Message	Contacts	Emergency Alarm	Microphone Gain Control	Positioning
DMO	Group Call	Status Message	Messaging	Temporary Disable/Activate	Microphone Path Set	Call Location
TMO	All Call	MMS	Camera	Permanent Disable	Three-band Equalizer	Covert Mode
	Broadcast Call	Packet Data	Photos	Man Down	VOX	TTS
	Emergency Call	Call Out	Sound Recorder	Lone Worker		Favorite Folder
	Public Phone Call		Files	Authentication		Sub-folder
	VoLTE HD Call		Documents	E2EE		TXI
	PSTN/PABX Call		Notes	Over the Air Encryption		RoIP
	Call Queuing		Clock			
	Call Priority		Calculator			
	NB Call Recording		Browser			
	Repeater Call (DMO)		Compass			
	Gateway Call (DMO)		DECam			
			Navigator			
			Tips			

Specifications

Wireless Data Communication

TETRA	350-470MHz; 806-870MHz
LTE	3GPP 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/B2/B4/B5/B8
TD-SCDMA	B34/B39
GSM	850/900/1800/1900MHz
WLAN	802.11 b/g/n, 2.4GHz
NFC	13.56MHz (Only the model of 350-470MHz is supported)
BT	V4.2, BDR+EDR+BLE
Positioning	GPS/BDS/GLONASS/Galileo/QZSS/A-GPS Position performance for open zone: TTFF (Cold boot)< 1minute TTFF(Hot boot)< 10seconds Horizontal position accuracy < 10meters

General Specifications

Dimensions (H x W x D)	139,5 x 68 x 26mm
Weight (with antenna & battery)	378±5g
AP Processor	8-core,2.0GHz
Operating System	Android 10
Google Certification	Google Mobile Services
Memory	RAM: 3GB; ROM: 32GB eMMC Supports up to 256GB with Micro SD card
Ports	20PIN Accessory/Charging Port
Top Screen	1.0" 128x88 Color: black & white
Main Screen	4.0" 1024x600
Card Slots	2 Micro SIM cards 1 Micro SD card 1 Encryption card
Front Camera	13MP, Auto Focus
Rear Camera	13MP, Auto Focus
Sensors	Proximity Sensor, Ambient Light Sensor, 6-axis E-Compass, Gyroscope, Accelerometer

Transceiver

Channel Spacing	25kHz
TX Power	1.8W(Class 3L) 1W(Class4)
RX Sensitivity	Static: ≤-116dBm(-117dBm typ.) Dynamic: ≤-106dBm(-109dBm typ.)
Audio Output	2W

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

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)
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Environment

Dust and Water Proofing	IEC60529- IP67
Shock and Vibration	MIL-STD-810 G
ESD	IEC 61000-4-2 (Level 3)
Operating Temperature	-20°C~ +60°C
Storage Temperature	-30°C~ +80°C
Humidity	Per MIL-STD 810 , ≤ +65°C,95%RH

Battery

Standard	2900 mAh Li-polymer, 7.6V(Rated)
Optional High Capacity	4000 mAh, 7.6V(Rated)



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