

MCS & PoC Radio and Platform

— Product Catalog —





MCS Radio

Industry Smart Device

Dual-mode Rugged Radio

PoC Radio

Multimedia Communication Platform

Hytera HyTalk

Hytera HyTalk Pro

Hytera HyTalk MC

Multimedia Unified Communication Platform

Smart Mobile Device Management



MCS Radio

XRugged Smart Device

PNC460

Designed for Work Efficiency

Hytera PNC460 is designed to improve efficiency in the workplace today and tomorrow. It has both smartphone and push-to-talk over cellular (PoC) radio capabilities, enabling your team to connect and collaborate more seamlessly at work. Furthermore, the PNC460 is truly rugged to brave any harsh environments. Where there is tough work, there is the PNC460. Powered by Android 12, the PNC460 allows you to use a multitude of apps to get things done in less time and with less hassle. Beyond data-rich services, it also provides reliable PTT communications, from instant PoC calls to video-based dispatch. All is born to drive efficiency for professionals in logistics, transportation, electricity, and more.

Application Scenarios



Transportation



Industrial parks



Airports



Customs



Logistics

3GPP MCX Services

The PNC460 supports dedicated 3GPP MCX service QCl and complies with the 3GPP release features by the HyTalk MC platform.

Precise Positioning

Thanks to the built-in dual-frequency GPS (L1+L5) chip, the PNC460 provides real-time, precise location for the dispatcher with the accuracy improved to 2 meters. Know where your devices are. Keep your personnel safe.

External Antenna

Unlike radios with built-in antennas, the PNC460 comes with the external antenna that has a 70% higher RX capability. The PNC460 still conveys accurate information even in areas with weak signal strength, such as mountains or underground garages.

Powerful Camera System

The PNC460 boasts unmatched photography capabilities, thanks to a 50 MP rear camera with HDR technology and the image stabilization algorithm. It can capture clear pictures and stable live videos in the field, and feed them to the command center in real-time over the 3G, 4G, or WLAN network.

Professional Acoustic System

With powerful speakers and advanced noise cancellation technologies, the PNC460 provides crystal-clear audio in any noisy environment, such as electrical maintenance fields, ports, and factories. This top-notch audio promises a high-quality communication experience in any work environment.

Exceptional Durability

The PNC460 is perfect for professionals working in the most demanding environments. It is IP68-rated. The device has tough exteriors and reinforced components to survive dust, water, snow, 1.5-meter sudden drops, extreme temperatures (-20°C to +60°C), and more.

Specifications

Network	
Frequency Band	GSM:850/900/1800/1900 WCDMA:B1/B2/B3/B4/B5/B8 TDD-LTE:B34/B38/B39/B40/B41(2496-2690MHz) FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B20/B26/B28
General	
Operating System	Android 12
Memory	4 GB RAM + 64 GB ROM
Dimensions(H x W x D)	164x77x14mm
Weight	275g
Screen	5.0 inches (1920x1080)
SIM Slots	2xNano-SIM
Location	GPS(L1+L5)/ BDS/ GLONASS/ A-GPS/ Galileo
WLAN	2.4 GHz&5 GHz,802.11 a/b/g/n/ac
BT	BT 5.0
Interface	USB Type-C port 3.5 mm audio jack
Charging Mode	USB Type-C port
Speaker	3W (max)
Battery	4,500 mAh
Camera	Front: 8 MP, Rear: 50MP
Video Resolution	1080p@60fps
NFC	Available
Sensor	Acceleration/gyroscope/geomagnetic/opto-sensor
Environment	
Operating Temperature	-20°C to +60°C
Storage Temperature	-30°C to +70°C
Electro-Static Discharge	IEC61000-4-2 ±12 kV (Air) ±6 kV (Contact)
Ingress Protection	IP68
Drop-proof	1.5m

Accessories

Standard Optional



Battery



Power Cord



Power Adapter



Wired Earpiece



BT Earpiece (with PTT)



Wireless Ring PTT



Wireless Remote
Speaker Microphone



Charger



Intrinsically Safe Smart Device

PNC460U

Your Safety and Efficiency, Assured

If you are operating the petroleum, chemical plant, pharmaceutical factory, or other workshops with potentially explosive gases, dusts or chemical vapors, you must want to find a way that never compromises on both work efficiency and personal safety at all times. Now, Hytera PNC460U makes it. The PNC460U is a UL913-certified intrinsically safe smart device with the capabilities of large-screen smartphone and push-to-talk over cellular (PoC) radio rolled into one. It provides purpose-built apps, instant PoC calls, video-based dispatch, and more to get things done in less time and with less hassle. Work safer. Work more efficiently.



MCS Radio

Application Scenarios



Chemical production



Food processing



Thermal power



Mining



Petrochemical plants



Enhance workplace safety

The PNC460U is designed for hazardous locations with potentially explosive gas and combustible dust, in compliance with the explosion-proof requirements for use in Class I, II, III; Division 1; Groups C–G; T4 and -20°C to +60°C. So the PNC460U can always provide reliable communications and efficient services for you, even in extreme working environments.



Android 12 OS

With the Android 12 OS, the PNC460U delivers the familiar experience and ease of use that the professionals want. More importantly, it provides an open and inclusive platform to run a wide variety of key apps, making everyday tasks easier and faster.



Powerful Camera System

The PNC460U boasts unmatched photography capabilities, thanks to a 50 MP rear camera with HDR technology and the image stabilization algorithm. It can capture clear pictures and stable live videos in the field, and feed them to the command center in real-time over the 2G, 3G, 4G, or WLAN network. This is crucial for dispatchers to know what happened, significantly improving collaboration and outcomes.



Professional Acoustic System

With powerful speakers and advanced noise cancellation technologies, the PNC460U provides crystal-clear audio in any noisy environment, such as electrical maintenance fields, ports, and factories. This top-notch audio promises a high-quality communication experience in any work environment.



Precise Positioning

Thanks to the built-in dual-frequency GPS (L1+L5) chip, the PNC460U provides real-time, precise location for the dispatcher with the accuracy improved to 2 meters. Know where your devices are. Keep your personnel safe.



External Antenna

Unlike radios with built-in antennas, the PNC460U comes with an external antenna that has a 70% higher RX capability. The PNC460U still conveys accurate information even in areas with weak signal strength, such as mountains or underground garages.

Specifications

Network	
Frequency Band	GSM:850/900/1800/1900 WCDMA:B1/B2/B3/B4/B5/B8 TDD-LTE:B34/B38/B39/B40/B41(2496-2690MHz) FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B12/B13/ B17/B20/B26/B28

General	
Operating System	Android 12
Memory	6 GB RAM + 128GB ROM
Dimensions(H x W x D)	164x77x23mm
Weight	337g
Screen	5.0 inches (1920x1080)
SIM Slots	2xNano-SIM
Location	GPS(L1+L5)/ BDS/ GLONASS/ A-GPS/Galileo
WLAN	2.4 GHz&5 GHz,802.11 a/b/g/n/ac
BT	BT 5.0
Interface	USB Type-C port 3.5 mm audio jack
Charging Mode	USB Type-C port
Speaker	3W (max)
Battery	4,580 mAh
Camera	Front: 8 MP, Rear: 50MP
Video Resolution	1080p@60fps
NFC	Available
Sensor	Acceleration/gyroscope/geomagnetic/ opto-sensorr

Environment	
Operating Temperature	-20°C to +60°C
Storage Temperature	-30°C to +70°C
Electro-Static Discharge	IEC61000-4-2 ±12 kV (Air) ±6 kV (Contact)
Ingress Protection	IP68
Drop-proof	1.5m

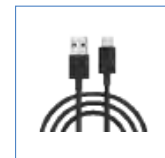
Certification	
Certification	CE / UI913/ MIL-STD-810/ IP68
Explosion-proof grade	Class I, II, III, Division 1, Groups C-G, T4, -20°C to +60°C

Accessories

Standard Optional



Battery



Power Cord



Power Adapter



Wired Earpiece



5G XSecure Rugged Device



PNC560

Focus On Your Mission

Hytera PNC560 is a secure, reliable, and efficient 5G communication device designed to stay connected in any situation. It offers mission-critical push-to-talk (MCPTT) over 5G/LTE network with ultra-fast speed and low latency. It also provides the full power of 5G for ultra-fast data services and the best two-way radio for instant voice communications, including group and emergency calls. The PNC560 delivers powerful audio, higher quality video streaming, barcode and QR code scanning, greater durability, and impressive usability. This improves efficiency and performance for users in public safety, logistics, or airports.

Application Scenarios



Public safety



Utility



Airports



Railway



Industrial parks



3GPP MCX Services

The PNC560 supports dedicated 3GPP MCX service QCLs and 40ms short MSP for eMBMS service and complies with the latest 3GPP release features by the HyTalk MC platform.



Unbreakable Data Security

PNC560 employs a multi-layer security mechanism integrated with both hardware and software design to provide comprehensive & adequate data protection on the device.



Barcode and QR Code Scanning*

PNC560 can quickly read barcodes or QR codes to obtain the information at the daytime or nighttime. It greatly helps boost the productivity of warehouse staff, ticket officers, and more.



3 High-resolution Cameras

Triple cameras featuring video stabilization solution, low-light photography, and high dynamic range technology, easy to capture stable videos and sharp pictures on the move, day or night, near or far.



6.3-inch FHD+ Full-screen

The PNC560 features a massive 6.3-inch full HD screen with a dewdrop notch. This screen is sunlight readable and works with gloves and wet fingers, ideal for use on construction, manufacturing, and industrial sites.

Specifications

Network	
Frequency Band	5G: N1/N2/N3/N5/N20/N28/N41/N66/N71/N78 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/ B17/B20/B26/B28 LTE-TDD: B38/B39/B40/ B41/B42/B43/B48 WCDMA: B1/B2/B4/B5/B8 GSM: 850/900/1800/1900
General	
Operating System	Android 12
Memory	6 GB RAM + 128 GB ROM 4 GB RAM + 64 GB ROM
Dimensions(H x W x D)	166.6 X 77.1 X 13 mm
Weight	270g
Screen	6.3 inches (2340x1080)
SIM Slots	2xNano-SIM
Location	GPS/ BDS/ GLONASS/ GALILEO/ A-GPS
WLAN	2.4&5 GHz 802.11a/b/g/n/ac
BT	BT 5.0
Interface	USB Type-C port 3.5 mm audio jack
Charging Mode	USB Type-C port
Speaker	3W dual speakers
Battery	5,040 mAh
Camera	Front: 8 MP, Rear: 48 MP and 8 MP
Video Resolution	1080p@30fps
NFC	Available
Sensor	Fingerprint, acceleration, gyroscope, geomagnetic, infrared sensor, opto-sensor
Environment	
Operating Temperature	-20°C to +60°C
Storage Temperature	-30°C to +70°C
Electro-Static Discharge	IEC61000-4-2 ±12 kV (Air) ±8 kV (Contact)
Ingress Protection	IP68
Drop-proof	1.5m
Certification	
Certification	CE / FCC / IC

*Only the scanning version supports this function.

Accessories

Standard Optional



Li-ion Polymer Battery



Data Cable



Tempered Glass



Power Adapter



Charger



Wireless Remote
Speaker Microphone



Wired Earpiece



Wireless Ring PTT



BT Earpiece



Dual-mode Rugged Radio

PTC680

All in one All in control Mission critical focused

Hytera PTC680 dual-mode rugged radio combines a mission-critical TETRA radio with an Android-based smartphone in a single device. It harnesses the power of narrowband and broadband technologies to provide mission-critical voice call, photo and video taking, positioning, and more. This innovative radio can communicate with narrowband radios over broadband network such as 2G, 3G, LTE, and WLAN.

As a professional rugged radio, the PTC680 is engineered for effortless usability. The ergonomic design on smart knob and keys and the modular design on UIs make it easy for you to accomplish tasks with one hand.

Application Scenarios



Public Safety



Emergency Response



Transportation



MCS Radio



All-In-One Device

With highly integrated and modular design, the PTC680 combines a TETRA radio and a smartphone into a single device. So you do not need to carry two separate handsets for accessing voice, data, video, and more.



Live Streaming

Thanks to the dual HD cameras, the PTC680 allows you to capture on-site pictures and videos, and then send them to another radio or command center in real time to dramatically improve situational awareness. The PTC680 also supports the external camera.



TETRA-MCS Voice Gateway

Serving as a gateway, the PTC680 Series bridges MCS and TETRA networks to ensure seamless communications across different radios which include MCS, TETRA and analog.



Loud and Clear Audio

Using the enlarged front chamber technology and professional acoustic design, the PTC680 can output sound at up to 128 dB. To ensure crystal and clear audio in noisy environments, the PTC680 adopts AI-based noise cancellation, echo cancellation, and wind noise reduction technologies.



Broadband-Narrowband Convergence

With the Hytera HyTalk MC solution adopted, the PTC680 can communicate with narrowband radios over broadband network extending the coverage to where the narrowband network is not available.



Purpose-Built App

The PTC680 supports apps developed by Hytera such as Navigator and other third-party apps. This helps you communicate and respond efficiently.



TETRA-MCS Simulcall

The PTC680 features TETRA-MCS Simulcall, so it can call both MCS devices and TETRA radios simultaneously. This helps commanders save time and efforts to initiate the MCS and the TETRA calls at the same time with the press of the PTT key.



Rugged and Durable

Rated at IP68 and ESD IEC Level 4, the PTC680 withstands water, dust, and electrostatic discharge. It can also withstand 1.5-meter drop from all angles. The industrial-grade touchscreen stands up to continuous use in any weather. All these help the PTC680 perform well in harsh environments.

Specifications

Wireless Data Communication	
TETRA	350-475MHz
Broadband	FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B20/B26/B28
	TDD-LTE: B34/B38/B39/B40/B41
	CDMA 1xRTT BCO
	CDMA2000 1xEV-DO BCO
	WCDMA B1/B2/B4/B5/B8 GSM 850/900/1800/1900MHz
WLAN	802.11 a/b/g/n/ac, 2.4GHz/5GHz
NFC (Optional)	13.56MHz
BT	V4.2, BDR/EDR/BLE
Positioning	GPS/BDS/GLONASS/Galileo/QZSS/A-GPS
General Specifications	
Dimensions (H x W x D)	140mm x 60mm x 29.1mm
Weight (with antenna & battery)	325g±5g
Operating System	Android 10.0
Screen	Top Screen: 0.92" Color: black & white Main Screen: 3.6" 1280x720, Touch Screen
Camera	Front Camera: 8MP, Fixed Focus Rear Camera: 13MP, Auto Focus
Card Slots	2x Nano SIM card; 1x Micro SD card; 1x Encryption card for Narrowband
Operating Voltage	7.7V (Rated)
Battery	Standard: 2400 mAh; Optional: 4000 mAh
Google Certification	Google Mobile Services
Transceiver	
Channel Spacing	25kHz
TX Power	3W(Class 3); 1.8W(Class 3L); 1W(Class 4)
Environment	
Dust and Water Proofing	IEC60529- IP68 (2m, 4h); IEC60529- IP66
ESD	IEC 61000-4-2 (Level 4), ±8 kV (Contact), ±15 kV (Air)

Accessories

Standard

2,400mAh Li-Poly Battery, Charger (2A), Power Adapter, Belt Clip, Antenna, Strap

Optional



BT Earpiece



Receive-only Swivel Earset



Wireless Remote Speaker Microphone



PTT&MIC Controller



4,000mAh Li-Poly Battery



Multi-Unit Charger



Nylon Carry Case



Charger (1A)



Dual-mode Rugged Radio

PTC760

All in one All in control Business critical standby

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.



Application Scenarios



Public Safety



Emergency Response



Transportation



All-In-One Device

With highly integrated and modular design, the PTC760 combines a TETRA radio and a smartphone into a single device. So you do not need to carry two separate handsets for accessing voice, data, video, and more.



Broadband-Narrowband Convergence

With the Hytera HyTalk MC solution adopted, the PTC760 can communicate with narrowband radios over broadband network extending the coverage to where the narrowband network is not available.



All-Round Security Assurance

The PTC760 can secure the voice and data through authentication, software and hardware encryption, or more. TrustZone protects the system; full-disk encryption (FDE) protects the user data; air interface encryption (AIE) and end-to-end encryption (E2EE) protect the voice and data communication; and remote control helps you manage radios.



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.



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.



DMR-PoC Simulcall

The PDC680 features PoC-DMR Simulcall, so it can call both PoC devices and DMR radios simultaneously. This helps commanders save time and efforts to initiate the PoC and the DMR calls at the same time with the press of the PTT key.



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.

Specifications

Wireless Data Communication	
TETRA	350-470MHz; 806-870MHz
Broadband	FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B20/B26/B28 TDD-LTE: B38/B39/B40/B41 CDMA 1xRTT BCO CDMA2000 1xEV-DO BCO WCDMA B1/B2/B4/B5/B8 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
General Specifications	
Dimensions (H x W x D)	139.5 x 68 x 26mm
Weight (with antenna & battery)	378g±5g
Operating System	Android 10.0
Screen	Top Screen: 1.0" Color: black & white Main Screen: 4.0" 1024x600, Touch Screen
Camera	Front Camera: 13MP, Auto Focus; Rear Camera: 13MP, Auto Focus
Card Slots	2x Micro SIM card; 1x Micro SD card; 1x Encryption card for Narrowband
Operating Voltage	7.6V (Rated)
Battery	Standard: 2900 mAh; Optional: 4000 mAh
Google Certification	Google Mobile Services
Transceiver	
Channel Spacing	25kHz
TX Power	1.8W(Class 3L); 1W(Class 4)
Environment	
Dust and Water Proofing	IEC60529- IP67
ESD	IEC 61000-4-2 (Level 3)

Accessories

Standard

2900mAh Li-poly Battery, Charger (2A), Power Adapter, Belt Clip, Antenna, Strap

Optional



BT Earpiece



Wired Earpiece



Remote Speaker Microphone



Carkit



4,000mAh Li-poly Battery



Multi-Unit Charger



Dual-mode Rugged Radio

PDC680

All in one All in control Mission critical focused

Hytera PDC680 dual-mode rugged radio combines a mission-critical DMR radio with an Android-based smartphone in a single device. It harnesses the power of narrowband and broadband technologies to provide mission-critical voice call, photo and video taking, positioning, and more. This innovative radio enables seamless communications between DMR network and public network such as 2G, 3G, LTE, and WLAN.

As a professional rugged radio, the PDC680 is engineered for effortless usability. The ergonomic design on smart knob and keys and the modular design on UIs make it easy for you to accomplish tasks with one hand.

Application Scenarios



Public Safety



Emergency Response



Transportation





All-In-One Device

With highly integrated and modular design, the PDC680 combines a DMR radio and a smartphone into a single device. So you do not need to carry two separate handsets for accessing voice, data, video, and more.



Live Streaming

Thanks to the dual HD cameras, the PDC680 allows you to capture on-site pictures and videos, and then send them to another radio or command center in real time to dramatically improve situational awareness. The PDC680 also supports the external camera.



Loud and Clear Audio

Using the enlarged front chamber technology and professional acoustic design, the PDC680 can output sound at up to 128 dB. To ensure crystal and clear audio in noisy environments, the PDC680 adopts AI-based noise cancellation, echo cancellation, and wind noise reduction technologies.



Automatic Switch

The PDC680 can automatically switch between DMR network and LTE network. Registering with both networks using the same ID, the PDC680 can always select the optimal one to deliver smooth and reliable voice communications everywhere, indoors or out.



Purpose-Built App

With the Android system, the PDC680 can support system-level apps developed by Hytera and other third-party apps. This helps you communicate and respond efficiently.



Rugged and Durable

Rated at IP68 and ESD IEC Level 4, the PDC680 withstands water, dust, and electrostatic discharge. It can also withstand 1.5-meter drop from all angles. The industrial-grade touchscreen stands up to continuous use in any weather. All these help the PDC680 perform well in harsh environments.

Specifications

Wireless Data Communication	
DMR/Analog	340-470MHz; 136-174MHz
Broadband	FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B20/B26/B28 TDD-LTE: B34/B38/B39/B40/B41 CDMA 1xRTT BCO CDMA2000 1xEV-DO BCO WCDMA B1/B2/B4/B5/B8 GSM 850/900/1800/1900MHz
WLAN	802.11 a/b/g/n/ac, 2.4GHz/5GHz
NFC (Optional)	13.56MHz
BT	V4.2, BDR/EDR/BLE
Positioning	GPS/BDS/GLONASS/Galileo/QZSS/A-GPS
General Specifications	
Dimensions (H x W x D)	140mm x 60mm x 29.1mm
Weight (with antenna & battery)	325g±5g
Operating System	Android 10.0
Screen	Top Screen: 0.92" Color: black & white Main Screen: 3.6" 1280x720, Touch Screen
Camera	Front Camera: 8MP, Fixed Focus Rear Camera: 13MP, Auto Focus
Card Slots	2x Nano SIM card; 1x Micro SD card; 1x Encryption card for Narrowband
Operating Voltage	7.7V (Rated)
Battery	Standard: 2400 mAh; Optional: 4000 mAh
Google Certification	Google Mobile Services
Transceiver	
Channel Spacing	12.5kHz/20kHz/25kHz
TX Power	UHF: 1W/4W; VHF: 1W/5W
Digital Vocoder Type	AMBE+2™
Environment	
Dust and Water Proofing	IEC60529- IP68 (2m, 4h); IEC60529- IP66
ESD	IEC 61000-4-2 (Level 4), ±8 kV (Contact), ±15 kV (Air)

Accessories

Standard

2,400mAh Li-Poly Battery, Charger (2A), Power Adapter, Belt Clip, Antenna, Strap

Optional



BT Earpiece



Receive-only Swivel Earset



Wireless Remote Speaker Microphone



PTT&MIC Controller



4,000mAh Li-Poly Battery



Multi-Unit Charger



Nylon Carry Case



Charger (1A)



Rugged MCS Radio

PDM680

Ready for Mission Critical Services

Hytera PDM680 Rugged MCS Radio is designed to help first responders stay connected and informed anywhere and anytime in critical situations. As a professional rugged radio, the PDM680 delivers reliable mission-critical voice communications, and mission-critical video and data services for those working in the most challenging conditions. In addition to the “on-network” operation, the PDM680 supports Digital Mobile Radio (DMR) Tier 2 and device-to-device (D2D) communications that allow the first responders to communicate without relying on the LTE network. The PDM680 is the best choice for those engaged in public safety, utilities, transportation, and more.

Application Scenarios



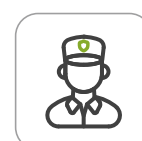
Public Safety



Emergency Response



Transportation



Utility





HyTalk MC App

PDM680 is built upon a solid platform that supports 3GPP Release 12 and many core MCS services above. With the native HyTalk MC application, PDM680 is able to deliver MCPTT, MC Video and MC Data services that leverage the broadband technology to improve situational awareness and safety, as well as maximize law enforcement efficiency.



D2D Communication

Built with DMR Tier 2 technology, the PDM680 can provide device-to-device (D2D) communications in DMO mode or repeater mode especially when the LTE network is down or not available in emergency situations such as the earthquake, tsunami, hurricane, fire disaster, or other natural disasters. With 1 W or 4 W transmission power, the radio ensures stable PTT services over a longer distance compared with other off-the-shelf MCS radios or PoC terminals.



DMR-MCS Simulcall

The PDM680 features MCS-DMR Simulcall, so it can call both MCS devices and DMR radios simultaneously. This helps commanders save time and efforts to initiate the MCS and the DMR calls at the same time with the press of the PTT key.

Specifications

Wireless Data Communication	
DMR	340-470MHz
Broadband	FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B20/B26/B28 TDD-LTE: B34/B38/B39/B40/B41 CDMA 1xRTT BC0 CDMA2000 1xEV-DO BC0 WCDMA B1/B2/B4/B5/B8 GSM 850/900/1800/1900MHz
WLAN	802.11 a/b/g/n/ac, 2.4GHz/5GHz
NFC (Optional)	13.56MHz
BT	V5.0, BDR/EDR/BLE
Positioning	GPS/BDS/GLONASS/Galileo/QZSS/A-GPS/NLP
General Specifications	
Dimensions (H x W x D)	145.7 mm x 60 mm x 29.1 mm
Weight (with antenna & battery)	328g±5g
Operating System	Android 10.0
Screen	Top Screen: 0.92" Color: black & white Main Screen: 3.6" 1280x720, Touch Screen
Camera	Front Camera: 8MP, Fixed Focus Rear Camera: 16MP, Auto Focus
Card Slots	2x Nano SIM card; 1x Micro SD card; 1x Encryption card for Narrowband
Operating Voltage	7.7V (Rated)
Battery	Standard: 2400 mAh; Optional: 4000 mAh
Google Certification	Google Mobile Services
Ports	USB Type-C port, USB2.0 13PIN Accessory/Charging Port
Transceiver	
Channel Spacing	12.5kHz
TX Power	1 W/4 W
Environment	
Dust and Water Proofing	IEC60529- IP68
ESD	IEC 61000-4-2 (Level 4), ±8 kV (Contact), ±15 kV (Air)



Outstanding Audio Quality

With the 36 mm built-in speaker, the PDM680 can deliver an audio with a maximum SPL of 118 dB. Even at 30 cm away from the source, the loudness level is as high as 98 dBPhon. Both the enlarged front chamber technology and professional acoustic design make the audio more penetrating and powerful. Moreover, AI-based noise cancellation, echo cancellation, and wind noise cancellation technologies help the PDM680 minimize the background noise and boost the audio clarity. Therefore, on a crowded street, the PDM680 makes you hear each word clearly to get job done right.



Rugged and Durable

The PDM680 is a truly rugged radio. It meets IP68, MIL-STD-810H, and IEC ESD level-4, surviving almost any challenges from water, dust, dirt, 1.5-meter drops, strong shocks and vibrations to extreme temperatures and humidity. The industrial touchscreen can be easily used with wet fingers or gloves.



Security

Adopting multiple defensive mechanisms, the PDM680 safeguards your mission-critical system, device, data and voice. Signature authentication ensures the system security. All data at rest is full-disk encrypted, while the data and voice in transit are protected by E2EE. The industry-leading remote management makes the radio in your complete control, from real-time monitoring to data erasing and more.

Accessories

Standard

2,400mAh Li-Poly Battery, Charger (1A), Power Adapter, Belt Clip, Antenna, Strap

Optional



BT Earpiece



Receive-only Swivel Earset



Wireless Remote Speaker Microphone



PTT&MIC Controller



4,000mAh Li-Poly Battery



Multi-Unit Charger



Nylon Carry Case



Charger (2 A)



PoC Radio

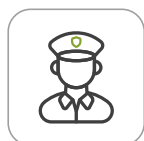
P50

Where Reliability Meets Simplicity

The Hytera P50 is a powerful PoC radio that leverages push-to-talk (PTT) over cellular networks, providing nationwide coverage and enhanced communication efficiency. By combining exceptional PTT performance with advanced data capabilities, it empowers professionals in security, logistics, transportation, and urban management to communicate effectively and collaborate seamlessly.



Application Scenarios



Security



Municipal Service



Logistics



Construction



Industrial Manufacturing



Transportation

Always Connected

Stay connected with the P50 Pro, even in areas with weak signals. Its professional dual antenna design delivers excellent signal performance, ensuring seamless communication, for instance in B5 band with a TRP of 18.5 dBm and a TIS of -93.5 dBm.

Ruggedized Connector & Port

Feature a 9-pin audio connector with a screw-in design to securely attach the earpiece to the radio. The waterproof Type-C charging port, crafted from high-strength alloy, ensures durability for long-term use.

Radio Clone

With Radio Clone*, the P50 Pro allows for quick configuration cloning from one radio to multiple radios via WiFi.

*: Optional

Superior Audio Quality

Equipped with a 3W built-in speaker and professional cavity design, it delivers a loudness of up to 103 dB at 30 cm. Advanced noise cancellation filters out surrounding sounds for clear communication, ensuring messages are transmitted without interruption.

Power for Longer Shifts

Equipped with a low-power, high-performance chip and a 4,000 mAh battery, the P50 offers up to 36 hours of operation (operating on a 10-10-80 duty cycle).

Professional Knob

The group switch knob enables quick group switching. Paired with Voice Notification*, the P50 informs you of the group you've switched to helping you stay focused on your tasks.

*: Coming soon

Specifications

Model	P50
Operating System	Android 12
Memory	RAM (1 GB), ROM (8 GB)
Dimensions (H x W x D)	131 mm x 61 mm x 23.5 mm
Weight (without belt clip)	190 g
Frequency Range	EU Vision GSM: 850/900/1800/1900 WCDMA: B1/B3/B5/B8 TDD-LTE: B34/B38/B39/B40/B41 FDD-LTE: B1/B3/B5/B7/B8/B18/B19/B20/B26/B28 US Vision GSM: 850/900/1800/1900 WCDMA: B2/B4/B5 LTE TDD: B38/B41 LTE-FDD: B2/B3/B4/B5/B7/B12/B13/B17/B26/B28
Screen	2.4-inch color LCD screen, 320 x 240 pixels
Location	GPS/BDS/GLONASS/Galileo
WLAN	WLAN 5 802.11 (2.4G/5G) ac/a/b/g/n
BT	BT 5.0
Speaker Power	2 W (rated), 3 W (max.)
Battery	4,000 mAh
Interface	9-pin audio connector, USB Type-C
Card Slot	Nano SIM card slot x 1, TF card slot x 1
Operating Temperature	-20°C to + 60°C
Storage Temperature	-30°C to + 70°C
ESD	IEC 61000-4-2, (ESD) ±12 kV (Air), ±8 kV (Contact)
IP Rating	IP68
Drop Resistance	1.5 m
Certificate	CE
Lone Worker	Support
MIL-STD 810H	Support

Accessories

Standard Optional



Battery



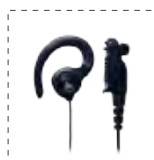
Data cable



Adapter



Belt Clip



Wired Earpiece



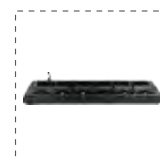
Remote Speaker
Microphone



Wireless Remote
Speaker Microphone



Charger
(Coming soon)



Multi-unit Charger
(Coming soon)



BT Earpiece
(Coming soon)



PoC Radio

P50 Pro

Where Reliability Meets Simplicity

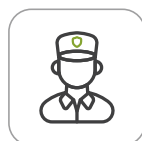
The Hytera P50 Pro is a powerful PoC radio that leverages push-to-talk (PTT) over cellular networks, providing nationwide coverage and enhanced communication efficiency. By combining exceptional PTT performance with advanced data capabilities, it empowers professionals in security, logistics, transportation, and urban management to communicate effectively and collaborate seamlessly.



Application Scenarios



Security



Municipal Service



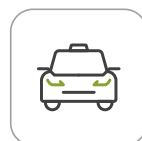
Logistics



Construction



Industrial Manufacturing



Transportation

Always Connected

Stay connected with the P50, even in areas with weak signals. Its professional dual antenna design delivers excellent signal performance, ensuring seamless communication, for instance in B5 band with a TRP of 18.5 dBm and a TIS of -93.5 dBm.

Ruggedized Connector & Port

Feature a 9-pin audio connector with a screw-in design to securely attach the earpiece to the radio. The waterproof Type-C charging port, crafted from high-strength alloy, ensures durability for long-term use.

Interact with Info Intuitively

The large 2.4-inch color screen features a full-view display* with an intuitive UI, allowing for flexible shoulder and waist wearing. This design enables quick access to key information at a glance.

Radio Clone

With Radio Clone*, the P50 Pro allows for quick configuration cloning from one radio to multiple radios via WiFi.

*: Optional

Superior Audio Quality

Equipped with a 3W built-in speaker and professional cavity design, it delivers a loudness of up to 103 dB at 30 cm. Advanced noise cancellation filters out surrounding sounds for clear communication, ensuring messages are transmitted without interruption.

Power for Longer Shifts

Equipped with a low-power, high-performance chip and a 4,000 mAh battery, the P50 Pro offers up to 36 hours of operation (operating on a 10-10-80 duty cycle).

Professional Knob

The group switch knob enables quick group switching. Paired with Voice Notification*, the P50 Pro informs you of the group you've switched to helping you stay focused on your tasks.

*: Coming soon

Specifications

Model	P50 Pro
Operating System	Android 12
Memory	RAM (2 GB), ROM (32 GB)
Dimensions (H x W x D)	131 mm x 61 mm x 23.5 mm
Weight (without belt clip)	209 g
Frequency Range	EU Vision GSM: 850/900/1800/1900 WCDMA: B1/B3/B5/B8 TDD-LTE: B34/B38/B39/B40/B41 FDD-LTE: B1/B3/B5/B7/B8/B18/B19/B20/B26/B28 US Vision GSM: 850/900/1800/1900 WCDMA: B2/B4/B5 LTE TDD: B38/B41 LTE-FDD: B2/B3/B4/B5/B7/B12/B13/B17/B26/B28
Screen	2.4-inch color LCD screen, 320 x 240 pixels
Location	GPS/BDS/GLONASS/Galileo
WLAN	WLAN 5 802.11 (2.4G/5G) ac/a/b/g/n
BT	BT 5.0
NFC	Available
Camera	8 MP, 1080p@30fps
Sensor	Optical distance sensor, Gravity sensor
Speaker Power	2 W (rated), 3 W (max.)
Battery	4,000 mAh
Interface	9-pin audio connector, USB Type-C
Card Slot	Nano SIM card slot x 1, TF card slot x 1
Operating Temperature	-20°C to + 60°C
Storage Temperature	-30°C to + 70°C
ESD	IEC 61000-4-2, (ESD) ±12 kV (Air), ±8 kV (Contact)
IP Rating	IP68
Drop Resistance	1.5 m
Certificate	CE
Man Down	Support
Lone Worker	Support
MIL-STD 810H	Support

Accessories

Standard Optional



Battery



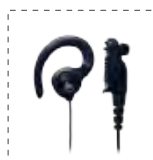
Data cable



Adapter



Belt Clip



Wired Earpiece



Remote Speaker
Microphone



Wireless Remote
Speaker Microphone



Charger
(Coming soon)



Multi-unit Charger
(Coming soon)



BT Earpiece
(Coming soon)



PoC Radio

PNC380

Instant Communication Unlimited Possibilities



Hytera PNC380 Push-to-Talk over Cellular (PoC) radio leverages the best radio and smartphone benefits to deliver instant PTT service and data-rich multimedia such as texts, images, and videos over 2G, 3G, 4G, or WLAN networks. It helps keep your mobile workforce connected anywhere and anytime.

The PNC380 provides reliable video streaming and fast precise positioning. It also features a long battery life, loud and clear audio, and ruggedness, making it the perfect companion for those involved in police, business and logistics.

Application Scenarios



Public
Safety



Property
management



Logistics



Supermarkets



Industrial
parks



Hotels



Data-Rich Multimedia Services

With the 5 MP rear camera, the PNC380 can capture video or pictures in the field and then transmit them to the command and dispatch center over the 4G network, greatly improving decision-making and work efficiency.



Nationwide Coverage

National workforce communication with mobile 4G/LTE connectivity supported by the Micro-SIM.



Rugged and Durable

Certificated with IP67 rating, the PNC380 is fully protected from dust and water. The PNC380 also withstands a sudden drop up to 1.2 meters. Besides, it can always provide reliable and smooth communications in the ambient temperature from -20°C to 60°C.



High-Quality Audio

High-volume speakers and digital noise suppression provide excellent voice quality in loud environments. Provides high-quality digital audio performance for individual calls, group calls, and emergency calls.



All-Day Battery

The 4,000 mAh high-capacity battery provides over 24 hours of talk and standby time on a 5-5-90 duty cycle. The removable battery enables the PNC380 to work for even longer hours.



Precise Positioning

With various combinations of GPS, BDS, and GLONASS and the advanced positioning algorithm adopted, the PNC380 provides fast positioning services over public or PMR network, indoor or outdoor. This helps you track your people and devices easily and facilitates efficient dispatch.

Specifications

Network	
Frequency Band	Asia,Europe,Middle East and Africa: GSM: 850/900/1800/1900 CDMA: BC0 TD-SCDMA: B34/B39 WCDMA: B1/B3/B5/B8 TDD-LTE: B38/B39/B40/B41 (2555~2655MHz) FDD-LTE: B1/B3/B5/B7/B8/B20/B26/B28 America: GSM:850/900/1800/1900 WCDMA:B2/B4/B5 LTE TDD:B38/ B41(2496~2690MHz) LTE-FDD:B2/B3/B4/B5/B7/B12/B13/ B17/B26/B28
General	
Operating System	Android 7.1
Memory	1GB RAM + 8GB ROM
Dimensions (H x W x D)	145*60*26.1mm
Weight	208 g
Screen	2.0 inches (320 x 240)
SIM Card	1 Nano-SIM
Positioning	GPS/BDS/GLONASS/A-GPS
WLAN	2.4 GHz&5 GHz, 802.11 b/g/n
BT	BT 4.1
NFC	Available (Optional)
Interface	Micro-USB 2.0, 3.5 mm
Battery Capacity	4,000 mAh
Charging Mode	Micro-USB 2.0
Speaker Power	2W (max)
Camera	5 MP
Flash	Available
Video Resolution	720p@30fps
Environment	
Operating Temperature	-20°C to +60°C
Storage Temperature	-30°C to +70°C
ESD	IEC 61000-4-2,(ESD)± 12 kV (Air); ±8 kV (Contact)
Ingress Protection	IP67
Drop-proof	1.2m
Certification	
Certification	CE/FCC/IC

Accessories

Standard Optional



Li-ion Polymer Battery



Data cable



Strap



Belt Clip



Power Adapter



Wired Earpiece



BT Earpiece



Wireless Ring PTT



Wireless Remote
Speaker Microphone



Charger



Multi-Unit Charger



PoC Radio

PNC360S

The Power of Simplicity



Hytera PNC360S Push-to-Talk over Cellular (PoC) radio is an easy-to-use radio that simplifies the way you get your team connected. With the PTT key, you can communicate with your entire mobile workforce anywhere and anytime over the 2G, 3G, 4G, and WLAN networks. With a lightweight design, the PNC360S packs amazing features into a delightfully compact size, such as long-lasting battery, loud and clear audio, and ruggedness. This radio is the best choice for those engaged in police, property management, logistics, or more.

Application Scenarios



Urban management



Property management



Logistics



Supermarkets



Industrial parks



Hotels



Open Platform

Featuring the universal and open Android operating system as well as an open application program interface (API), the radio can be compatible with a variety of third-party and custom applications on the market.



Rugged And Durable

Rated at IP67, the radio is made tough to withstand water, dust, 1.2-meter drop, and extreme temperatures, ensuring reliable performance in even the harshest environments.



Smoother Communication

Thanks to its exterior antenna design, the radio's RX sensitivity has been enhanced by 2 dB. This results in seamless communication even in regions with weakened signals, such as suburban locations, indoor settings, or underground areas.



All-Day Battery

With a unique low-power design, the radio has a 4,000 mAh battery that meets 24-hour working time on a 5-5-90 duty cycle (5% transmission time, 5% reception, and 90% standby). Replacement design helps you replace the battery in a second.



Loud And Clear Audio

The built-in 3-watt speaker brings you loud audio. With patented distortion reduction technology, the radio can deliver clear and crisp audio even in a noisy downtown, gym, station, or more. In addition, patented howling noise suppression technology is adopted to prevent feedback howling noise from multiple radios that are close to each other during transmission or reception.



Precise Positioning

With various combinations of GPS, BDS, GLONASS and higher-precision positioning modules, the radio can be located faster and more precisely for efficient dispatch.

Specifications

Network	
Frequency Range	Europe/Asia/Africa: GSM: 850/900/1800/1900 CDMA: BCO TD-SCDMA: B34/B39 WCDMA: B1/B3/B5/B8 TDD-LTE: B38/B39/B40/B41 FDD-LTE: B1/B3/B5/B7/B8/B20/B26/B28 America: GSM: 850/900/1800/1900 WCDMA: B2/B4/B5 TDD-LTE: B38/B41(2496~2690MHZ) FDD-LTE: B2/B3/B4/B5/B7/B12/B13/B17/B26/B28
General	
Operating System	Android 7.0
Memory	1GB RAM+8GB ROM
Dimensions (H x W x D)	104*54.6*26.5mm
Weight	170 g
Screen Size	1.77 inches
Screen Resolution	160 x 128
SIM Card	1 Nano-SIM
Positioning	GPS/BDS/GLONASS/A-GPS
WLAN	2.4GHz, 802.11 b/g/n
BT	BT 4.1
External Interface	Type-C, 3.5mm
Battery Capacity	4000mAh
Charging Mode	Type-C
Speaker Power	3W (max)
Environment	
Operating Temperature	-20°C to +60°C
Storage Temperature	-30°C to +70°C
ESD	IEC 61000-4-2, (ESD)± 12 kV (Air); ±8 kV (Contact)
Ingress Protection	IP67
Drop-proof	1.2m
Certification	
Certification	CE/FCC/IC

Accessories

Standard

Optional



Li-ion Battery



Data Cable



Strap



Belt Clip



Power Adapter



Wired Earpiece



PoC Mobile Radio



MNC360

Move Anywhere. Connect Anytime

The MNC360 is a push-to-talk over cellular (PoC) mobile radio designed for in-vehicle communication. With Hytera's innovative design, it provides reliable, loud, clear voice service for a variety of field communication scenarios. The simple-to-use design makes it easy to install, remove, and operate. Versatile accessories are available to meet more requirements in different work environments. Working as a professional business-ready PTT mobile radio, MNC360 is the ideal group communication device for vertical markets.

Application Scenarios



Logistics



Transportation



Security



Mining



Ambulance

Smoother Communication

Compared with regular smartphones, the MNC360's two external LTE antennas improve RX sensitivity by 3dB, covering weak signal areas such as suburban or underground parking lots. The manual switch enables the MNC360 to always select the network with better signal strengths. Stable, seamless and high-quality communications are ensured everywhere.

Smart Design, Safe Driving

The MNC360 is a safety assistant providing an overspeed alarm and fatigue driving alarm to ensure a safe trip. Keys on the MNC360 are automatically locked during driving, helping the driver focus more on the road and less on the radio. Meanwhile, the external USB camera can be connected to the MNC360, working as a dash camera to record driving details.

Loud and Clear Audio

The built-in 4-watt speaker comes with distortion suppression, howling suppression and noise cancellation technology, which allows the MNC360 to transmit loud and clear audio even with the window rolled down on construction sites or busy streets.

Flexibility and Adaptability

Paring with wired or wireless accessories, the MNC360 gives users more freedom and flexibility for voice communications. With the Android system and standard APIs, the MNC360 is open for third-party apps to create an in-vehicle ecosystem for data applications in the field. Moreover, the MNC360 is highly customizable to extend the capabilities to suit specific needs.

Specifications

Network	
Frequency	FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B20/B26/B28 TDD-LTE: B38/B39/B40/B41 (2496–2690 MHz) WCDMA: B1/B2/B3/B4/B5/B8 GSM: 850/900/1800/1900
General	
Operating System	Android 7.1
Memory	1 GB RAM + 8 GB ROM
Dimensions (H x W x D)	170 mm x 66 mm x 39.3 mm
Weight	300g
Display	2.0 inches (320 x 240)
SIM Card	2 x Micro-SIM
Positioning	GPS/BDS/Glonass/A-GPS
WLAN	2.4 GHz, 802.11 b/g/n
Bluetooth	BT 4.2
NFC	Optional
External Interfaces	Micro-USB 2.0 (OTG) 3.5 mm audio jack Two LTE antenna ports 2-pin external speaker port GPS antenna connector Power inlet 10-pin aviation por
Input Voltage	13.6±15%V DC
Speaker	≤ 8 W
Environment	
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +85°C
ESD	IEC 61000-4-2, (ESD) ± 12 kV (Air), ± 8 kV (Contact)
Ingress Protection	IP54
Certification	
Certification	FCC/IC/CE

Accessories

Standard Optional



Plam Microphone



Bracket



LTE Antenna



GPS Antenna



Power Cord



Wireless Remote Speaker
Microphone



Wired Earpiece



Wireless Ring PTT



BT Earpiece



HyTalk PMR Gateway Solution

Bridge networks. Bring connectivity

As broadband services increasingly flourish, some industries tend to buy broadband radios as a new communication way. However, these radios cannot be connected to the legacy narrowband radios. Replace all your legacy? It will be a big investment. Thus, we innovate HyTalk PMR Gateway to solve this problem for business, public safety, transportation, utilities, and more.

HyTalk PMR Gateway is a cost-effective narrowband-broadband interconnection solution, including the BN100 voice gateway box, MNC360 PoC mobile radio, and HM78X or HM65X digital mobile radio. It has the capability to seamlessly connect narrowband radios and broadband radios. Moreover, interworking with public network, it allows narrowband radios to communicate with each other anywhere.

Application Scenarios



Security



Industrial
parks



Airports



Transportation



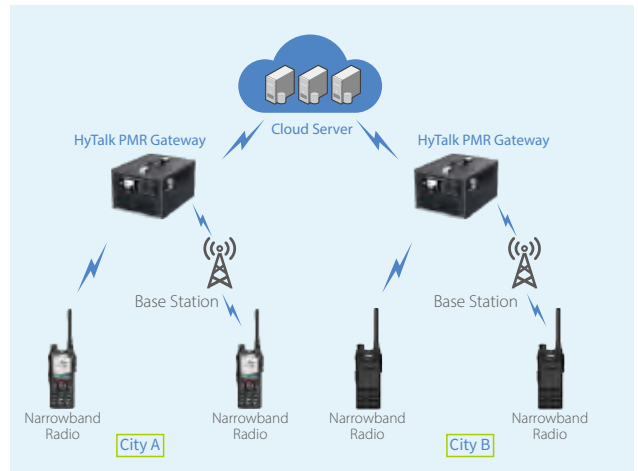
Enhanced Collaboration

This solution unleashes the collaborative potential of radio in the field, regardless of narrowband or broadband. This enables different user groups to communicate seamlessly with each other in a unified way for increased work efficiency.



Extended reach

Leveraging the public network, this solution interconnects PMR networks in different regions cost-effectively, without building additional expensive ground infrastructure. So legacy narrowband radios can be reused for voice communications, protecting existing narrowband investments.



Ease of use

Simple but intuitive, this solution is easy to deploy and use. The voice gateway box containing two mobile radios is compact and weighs less than 8 kg, which is designed for easy transport. A handle on the top of this box ensures a comfortable grip and fast carrying.



Low latency

This solution supports back-to-back connection between one PMR mobile radio and one PoC mobile radio. This greatly accelerates transmission rate and reduces audio latency. Thus, narrowband and broadband radio users can stay connected quickly.

Specifications

General	
Dimensions (D x W x H)	288*244*158mm
Weight	No mobile radio: 2.8 kg With two mobile radios: 7.2 kg
Connector and Switch	
Narrowband Antenna Connector	1
LTE Antenna Connector	2
Power Inlet	1
Power Switch	1
Palm Microphone Connector	1
Input Voltage	100 - 240 V AC
Environment	
Operating Temperature	-20°C ~+60°C
Storage Temperature	-40°C ~+85°C



PoC System

Hytera HyTalk[®]

Hytera HyTalk PoC System is a multimedia communication solution that operates on the public network and offers various types of communication services, including voice, video, and data. Leveraging 3G/LTE/Wi-Fi technology, users can effortlessly engage in one-to-one or one-to-many communication with a range of Hytera terminals, including PoC Radios, Dual-mode Rugged Radios, and Body Cameras, as well as Android smartphones. The system aims to establish a self-sustaining communication platform, enabling operators to drive revenue growth.

Application Scenarios



Hotels



Catering



Security



Logistics

Highlights



Microservice Architecture

Hytera HyTalk solution adopts advanced microservice architecture technology, which not only has powerful performance but also has the ability to load balance and support smooth upgrades and expansions.



Hierarchical User Model

Hytera HyTalk solution adopts a hierarchical user model in the SOP. Users at different levels are granted various operation permissions to simplify management and enhance work efficiency.



Visualized Dispatch

With the help of GIS, dispatchers can locate users on the map in real-time. In addition, dispatchers can call users selected on the map, play back their history track, and more.



Security

Hytera HyTalk solution supports end-to-end encryption and lawful interception. Meanwhile, the radio can be uniquely bound with its SN and SIM card for higher security.



Flexible Package Templates

The SOP offers flexible package templates for different service combos to form packages that meet the needs of different users.



Powerful Audio and Video Capabilities

Hytera HyTalk can be used synchronously with the patrol system. With this patrol system, it can realize the patrol management, online push and real-time reporting of the patrol tasks, track playback, receiving, viewing, executing and counting of patrol tasks and reporting of hidden dangers, etc.

Features



Audio

- Half-duplex voice individual call
- Full-duplex voice individual call
- Voice group call
- Group call priority
- SOS emergency call



Video

- Half-duplex video individual call
- Full-duplex video individual call
- Video group call



Data

- One-to-one SMS*
- Group SMS



Management

- User operation
- Account creation and grouping
- Call duration control
- Account expiration reminder
- SN query



Dispatching

- Subscribe to GPS
- Call interrupt
- Ambience listening
- Video push/forward
- Video pull
- DGNA
- User status presence



Security

- Account binding SN and SIM
- Strong cipher

*SMS: short message service

*DGNA: dynamic group number assignment



PMR-LTE Convergence-native System

Hytera HyTalk[®] Pro

Hytera HyTalk Pro is a multimedia communication solution that combines narrowband communication with a public network infrastructure. It offers a wide range of services including voice, video, and data, while also enabling seamless interconnection between Push-to-Talk over Cellular (PoC) and Digital Mobile Radio (DMR). Consequently, users can leverage their existing DMR trunking system while upgrading from voice-only to multimedia services.

Application Scenarios



Public Safety



Fire Fighting



Airports



Security



Transportation

Highlights



Interconnection Communication

It supports interconnection between PoC and DMR, combining the advantages of both broadband and narrowband communication systems to provide wider coverage, and more stable, clear, and reliable voice communication means.



Dispatch Service

The location of terminal can be displayed on the map in real-time. At the same time, the system supports audio and video dispatching for multiple types of terminals on the map.



Converged Access of Multiple Types of Radios

Support unified access and mixed grouping of PoC radios, Dual-mode Rugged Radios, Body Cameras, PMR Radios, etc. Dual-mode Rugged Radios support the same number to access broadband and narrowband networks, realizing multiple services such as voice, video, location, and multimedia data.



Enriching Video Service

It supports video services such as video call, video pull, and one-click video return, helping dispatchers to understand the situation on the spot in real-time and accurately make a decision.



Multimedia Message Service

It supports the sharing of information such as pictures, videos, and locations through multimedia messages so that users can efficiently provide diverse data information to group members and dispatchers.



Security and Reliability

The system supports security features such as hot standby, disaster recovery, load balancing, and E2EE to provide our customers with secure and reliable communication services.

Features



Audio

- Half-duplex voice individual call
- Full-duplex voice individual call
- Voice group call
- Group call priority
- SOS emergency call



Video

- Half-duplex video individual call
- Full-duplex video individual call
- Video group call



Data

- Multimedia SMS*
- Status message
- Storage and Forwarding



Management

- User & Group management
- Audio & Video data management
- Network management



Dispatching

- Broadcast call
- Voice/Video conference
- User stun/kill/revive
- Call interrupt/override
- Subscribe to GPS
- Ambience listening
- Video pull/push/forward
- Map-based DGNA*



Security

- Disaster Recovery
- E2EE*
- Authentication

*SMS: short message service

*DGNA: dynamic group number assignment

*E2EE: end to end encryption



MCS System

Hytera HyTalk[®] MC

Hytera HyTalk MC MCS System, a 3GPP standard mission critical system, is designed to deliver reliable and secure communication services, including MCPTT, MCVideo, MCData, as well as unified visual dispatching and recording services, to all the vertical industries.

Application Scenarios



Public Safety



Railway



Energy



Airports



Port



Public Utilities

Highlights



Meet the 3GPP

Hytera HyTalk MC is fully compliant with the 3GPP mission-critical standards including MCPTT, MCDATA, and MCVideo. Native convergence across MCS and legacy PMRs leads the way to future mission-critical communications.



Microservice Architecture

The microservice architecture enables the independence between various services and achieves load balancing. Local cluster deployment ensures system load sharing and high availability.



Security

Bi-directional authentication between the MCS server and MC clients to prevent unauthorized access. The Hytera HyTalk MC supports Dedicated APN, TLS transmission, Independent key Management, E2EE, AES128 & AES256 algorithms and user-self-developed 3GPP-compliant algorithms, greatly improving the level of system security.



Reliability

It supports virtual deployment and cluster deployment to achieve load balancing. The geographic redundancy mechanism ensures that when the primary server is faulty, the standby server is automatically switched over to ensure normal system running. Cluster mode supports dual-master, in this case, the failure of any node in the cluster deployment does not cause an active/standby switchover.



Priority

It supports voice, video and data services with dedicated bearer, enabling access to resources in a timely manner. And it supports concurrent voice, concurrent video and data services, eMBMS and calls priority to ensure the mission critical services.



Compatibility

HyTalk MC has passed Plugtests, so that can be connected with 3rd-party trunking products for common networking. It provides customers with flexible options and achieves asset preservation.

Features



Management

- Client upgrade online
- System smooth upgrade
- Organizational structure
- Traffic statistics
- NMS* alarm
- topology & alarm management
- batch add subscriber & group
- Northbound interface & Southbound interface



Calling

- Half duplex private call
- Full duplex private call
- Voice individual call
- Voice group call
- Video individual call
- Video group call
- SOS emergency call
- Patch group
- Call waiting/hold/forwarding
- Broadcast call
- Late entry



Data

- SMS*
- Multimedia message
- Location information
- Read receipt



Dispatching

- Broadcast call
- Ambience listening
- Video pull/push/forward
- User stun/kill/revive
- Voice/Video call recording
- Call interrupt/override
- Voice/Video conference
- Subscribe to GPS
- Ambient monitoring
- Map-based DGNA
- Group patch



Supplementary

- Service concurrency
- DGNA*
- Call forwarding
- Call Priority
- Black list
- Device bound with SIM card
- Interconnect with PSTN/PLMN
- Interconnect with TETRA
- Interworking between MCS and MCS
- Standard interface interworking with 3rd-party PMR system
- 3GPP lawful interception

*NMS: network management system

*SMS: short message service

*DGNA: dynamic group number assignment



Multimedia Unified Communication Platform

MUC (Multimedia Unified Communication Platform) is an integrated command and dispatch platform that integrates voice service, video service, data service, etc. It provides a more complete dispatching solution for HyTalk, HyTalk Pro, HyTalk MC, and realizes the interconnection and unification of terminals of different standards, which meets the communication needs of users on demand.

Application Scenarios



Public Safety



Fire Fighting

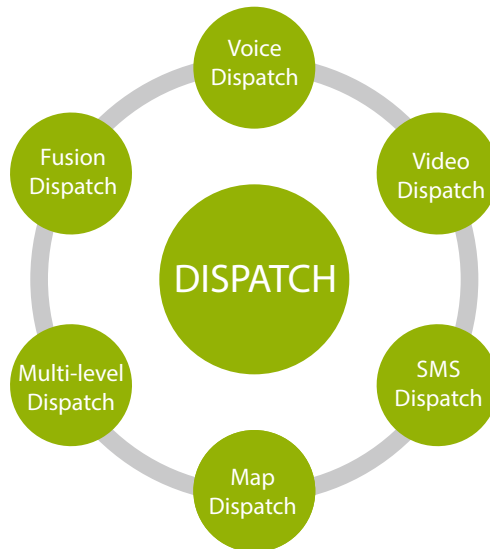


Railway



Forestry

Highlights



Fusion Dispatch

The location of multiple types of terminals (PoC Radios, Dual-mode Rugged Radios, Body Camera, DMR Radios, etc.) are displayed on the map, and it realizes unified communication dispatch, including voice, video, and data for all devices.



Voice Dispatch

Integrate voice communication resources to achieve voice intercommunication, including DMR, TETRA, MPT, PoC, etc. It has powerful voice communication capabilities, including individual call, group call, emergency call, broadcast call, monitor, etc.



Video Dispatch

Integrate video communication resources, and realize video fusion scheduling, including PoC, CCTV, etc. It supports video individual call, group call, video pull, video push, video forwarding, video return and multimedia video conference.



SMS Dispatch

Support one-to-one or group sending messages which include pictures, voices, files, videos, etc.



Map Dispatch

Support various map types access to MUC, including OpenStreet Map, Google Map, etc. It can display terminals' online status and playback track on the map, and also support click and circle to call on the map.



Multi-level Dispatch

Support multi-level dispatching to realize resource sharing and collaborative operations.

Features



Voice Dispatch

- Half-duplex voice individual call
- Full-duplex voice individual call
- Voice group call
- SOS emergency call
- Call Priority
- Ambiance listening
- DGNA*
- Broadcast call
- Multimedia SMS*



Video Dispatch

- Video individual call
- Video group call
- Video pull/push/forward
- Video conference



Map Dispatch

- Subscribe to GPS
- User location track
- Track playback
- Polygon group on map
- Electrical fence on map



Trunking Control

- Call interrupt/override
- User stun/kill/revive

*SMS: short message service

*DGNA: dynamic group number assignment



Smart Mobile Device Management

Smart MDM

Smart Mobile Device Management (MDM) provides a fast and easy way to program and upgrade dual-mode rugged radios, narrowband radios, broadband radios, body cameras in batches through wired or wireless connectivity such as 3G, LTE, or WLAN. This simple-to-use application removes physical boundaries and minimizes in-field programming time for cost reduction and productivity improvement. The powerful Smart MDM provides you with service-oriented functions such as track view, time fence, and smart battery management, to manage your devices effortlessly.

Highlights



Wireless Connection, Remote Control

Wherever your people are, on a mountain or under a well, in nearby block or overseas, Smart MDM allows you to easily upgrade or program their devices over 3G, LTE, or WLAN network.



Batch Programming, 4500% Faster

Smart MDM outperforms traditional programming. Traditionally, it takes several technical staff three days to finish programming 1,000 devices. Now, Smart MDM helps you get this job done just in minutes or hours.



Standby Redundancy

Smart MDM runs on an active server and a standby server for high availability. If the active server fails due to natural disasters (such as fire, flood, and earthquake), computer viruses, power failure, network error, and misoperation, the standby server automatically takes over its function just in 30 seconds to keep services running.



Auto Alarm Report

Once something goes wrong in basic services, device status reports, agency services, web, service push, and more, Smart MDM automatically reports the alarms to the network management system (NMS). This helps your NMS operator fix the problem as soon as possible.



Communication Security

HTTPS authentication secures access to Smart MDM. RSA-2048 and AES-2048 encrypt data transmitted between the devices and Smart MDM.



Data Security

SHA-256 algorithm shields your data stored on the Smart MDM from unwanted exposure.



History Tracks and Heat Map

Smart MDM allows you to view history tracks on the map to find your lost devices or check patrol routes. Moreover, the field strength or location heat map helps you visualize, compare, and analyze the data so that you can make a quick and better decision.



Data Backup and Restore

Smart MDM can back up your call logs, messages, contacts, videos, photos, apps, notes, and more data to the server with one click. The backup data can be restored when you log in to a new device.



Kiosk Mode

Smart MDM can make your devices operate in Kiosk mode. In such mode, the devices are allowed to use only designated apps and features such as mobile data, WLAN, BT, or others. For example, the airport staff may use their devices to access only flight-related apps.



Device Health

Smart MDM helps you check the battery health on your device to ensure normal operation. It can detect and show unqualified batteries, such as batteries with a service life shorter than 8 hours, to ensure your communication is uninterrupted.



Data Export in Batches

Smart MDM enables you to export the device data in batches, including serial number, name, model, firmware version, online or offline log, battery health, installed apps, latest login time or location, permissions to various features, and more. The exported data helps you analyze the device status, making device management more efficient in the future.



Time Fence

Smart MDM features time fence that enables you to set a time period during which some functions are available for the device. For example, the device is allowed to provide only work-related features, such as BT, location, and camera during working hours. This helps the device user focus on the job.



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