

HORIZON



Push-to-Talk over Cellular and Wi-Fi Devices, Services, and Systems

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Communicate. Coordinate. Facilitate.

Communicate instantly with nationwide groups of remote workers using a variety of PoC devices

Coordinate worker locations and jobs with centralized dispatching and GPS location tracking

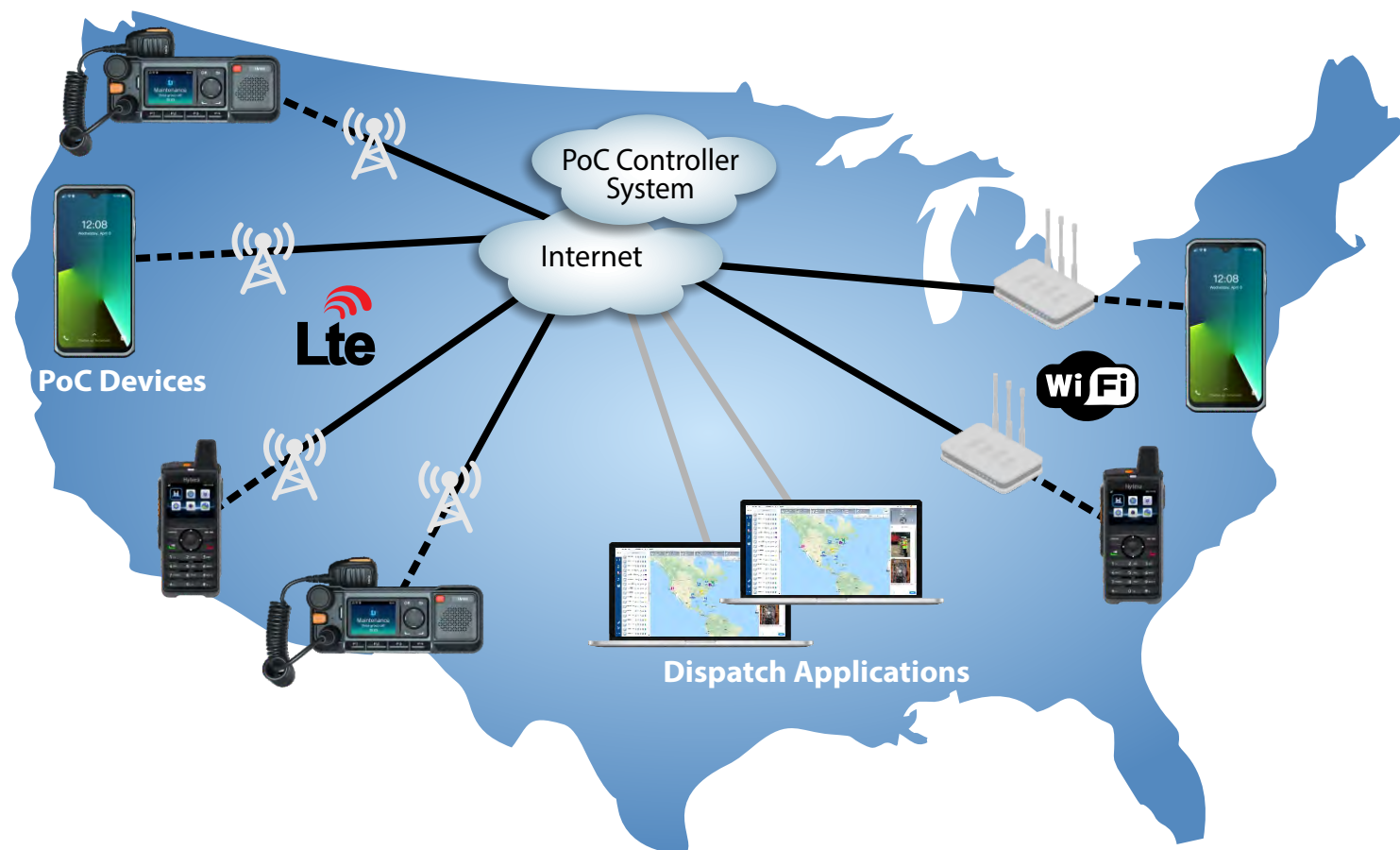
Facilitate cost reductions by improving operational efficiencies and quickly solving problems

What is PoC and How Does it Work?

PoC is also referred to as Radio over IP (RoIP). Similar to Voice over IP (VoIP), RoIP devices are handheld two-way radios that access cloud-based PoC services via the internet for voice calling. A data plan SIM card (similar to those used in cell phones) is installed in the PoC device to enable access to the internet using the 4G/5G/LTE cellular infrastructure of Mobile Network Operators. Hytera PoC devices access the HORIZON Nationwide PoC cloud controller through the internet using 4G/5G/LTE cellular networks and Wi-Fi networks for wide-area radio communications.

HORIZON subscription-based PoC services are hosted on the cloud using Hytera US Inc HORIZON PoC controllers (network appliances). Third party gateway routers provide connectivity between the 4G/5G/LTE network and the cloud hosted PoC controller.

The result is access to reliable cloud-based services using existing cellular and Wi-Fi networks that require no maintenance or operational expenses. HORIZON Dispatch web browser applications also connect to the PoC cloud server through the internet.



Who Uses Push-to-Talk over Cellular?

- Transportation, Shipping, and Logistics
- K12, Colleges, and Universities
- Security Services
- Taxi, Shuttle, and Towing Services
- Construction, Plumbing, and Electrical
- Manufacturing and Industry
- Agriculture
- Hotels, Resorts, and Casinos
- Healthcare, Ambulances, and EMTs
- Any Small to Large Business



HORIZON Key Features

NATIONWIDE COVERAGE

- PoC leverages 4G/5G/LTE and Wi-Fi networks to provide secure and instant nationwide radio communications
- No need to purchase, operate, and maintain traditional radio network infrastructure

INDUSTRY LEADING VOICE QUALITY

- AI-based digital noise suppression that learns human voice and extracts it from background noise in real time, and high-volume speakers for excellent voice quality in loud environments

RAPID DEPLOYMENTS

- Since the cellular LTE and Wi-Fi radio network infrastructure already exist, PoC systems can be deployed very quickly
- PoC radios work out-of-the-box with SIM cards pre-installed
- No expenses related to owning traditional radio repeater and antenna systems or FCC frequency licenses

INSTANT INDIVIDUAL AND GROUP CALLING

- Hytera PoC devices support instant individual (one-to-one) and group calls (one-to-many) with the press of a Push to Talk (PTT) button on a radio or from a dispatching application
- Call groups can be set up based All Call Broadcast and Emergency calls, or select teams of radio users based on types of employees, mobile service fleets, employee locations, and type of projects, etc.
- Using groups minimizes distractions by ensuring that only the relevant parties are involved in the conversation

UNLIMITED CHANNELS

- The HORIZON PoC platform allows any number of virtual channels and as many call groups as required

INSTANT INDIVIDUAL AND GROUP CALLING

- Supports instant individual (one-to-one) and group calls (one-to-many) with the press of a Push to Talk (PTT) button on a radio or from a dispatching application

TEXT MESSAGING

- Users can communicate with each other and dispatch with free-form or pre-programmed text messages

SHARING IMAGES AND VIDEOS

- PoC devices with cameras can share pictures and videos with other PoC devices and Hytera Dispatch applications

GPS LOCATION TRACKING

- All Hytera PoC devices feature integrated GPS to enable location tracking with Hytera Dispatch applications
- Enables tracking of driver locations and travel routes with time stamps and geofence boundaries

SAFETY FEATURES

- Emergency buttons on PoC devices enable sending and receiving Emergency Alarms for enhanced worker safety
- Dispatcher can remotely monitor audio during emergency situations
- Dispatch can stun (disable) and revive (turn on) remote radios that are lost or stolen, or used maliciously

SECURITY AND PRIVACY

- Optional ARC4 and AES 128/256 encryption provides secure and private end-to-end calling

CALL LOGGING AND RECORDING

- Supports recording group calls as .wav files on the devices
- Capture call content and playback on PC to monitor performance, compliance and legal protection requirements, and enhance customer service

ANDROID OPERATING SYSTEM

- Hytera PoC devices are powered by the Android platform

Hytera PoC Devices

- Nationwide Coverage with 4G/5G/LTE Networks
- Industry Leading Voice Quality with Digital Noise Suppression
- Supports Instant Group and Individual Calling
- Compact and Rugged Radios that are Easy to Use
- GPS Location Tracking for the Web-based Dispatching App



MNC360
PoC Mobile Radio



PNC360S
Compact PoC Radio



PNC380S
Full-Feature PoC Radio



PNC560
Smart Device with Scanner

HORIZON

HORIZON is a subscription-based Push-to-Talk Over Cellular (PoC) service that provides instant individual and group calling over the most advanced and reliable cloud-based communications network.

HORIZON utilizes the 4G/5G/LTE cellular infrastructure of Mobile Network Operators and Wi-Fi networks to access the cloud-based PoC servers.

4G/5G/LTE cellular networks enable unlimited coverage area so radio users are untethered by the range of repeaters and base stations used in traditional radio networks.

HORIZON supports all of the rugged and feature-rich Hytera PoC devices and includes HORIZON Dispatch, a web-based dispatching application that enables centralized group calling and GPS location tracking.

HORIZON is a simple and cost-effective communications solution for small and medium sized businesses, and is scalable to large enterprises with thousands of users.

PoC Subscription Service

The Most Reliable PoC System Available: The most dependable PoC services available through high-capacity cloud servers with geographically diverse hot-standby redundancy for the highest level of service availability.

Instant Group Communication: Nationwide group calling enables swift decision-making and response times.

Efficient Collaboration: Enhance teamwork and collaboration by providing a seamless platform for real-time communication among remote and dispersed teams.

Increased Productivity: Boost productivity with instant voice calling, share images and videos, and run Android business apps.

Cost-Efficiency: Reduce communication costs significantly compared to traditional smart phones and calling plans, leading to substantial savings for businesses and individuals.

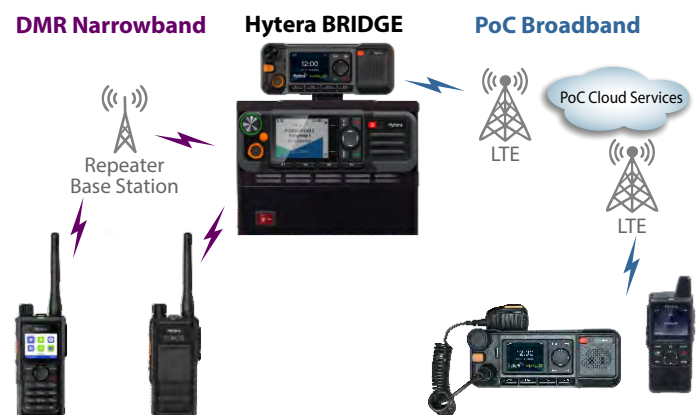
Scalable: Easily add a limitless number of radios. and HORIZON is the only PoC system designed for the large enterprise with complete customer operational control.

Hytera BRIDGE PoC System Interconnect Solution

Hytera BRIDGE is a compact hardware system configuration that provides a reliable, and cost-effective Radio over IP (RoIP) gateway between Hytera Push-to-Talk over Cellular (PoC) radios and a variety of DMR and analog radio systems.

- Enables group radio connectivity between Hytera PoC radios and analog radios, Tier II and Tier III DMR systems, or Hytera XPT systems.
- Preserves investments in DMR radio systems by providing a cost-effective method to add Hytera PoC radios with nationwide range to an existing DMR system.
- Hytera Bridge can also provide connectivity between two remote DMR radio systems over a PoC Broadband connection.

Hytera BRIDGE DMR/PoC Gateway Application



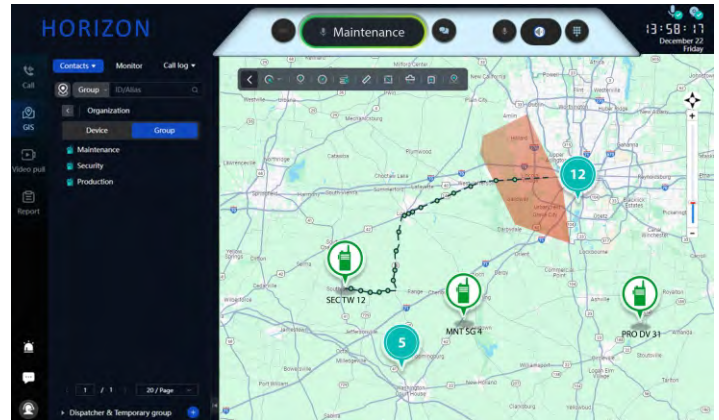
HORIZON Dispatch Application

HORIZON Dispatch is a web-based dispatching and location tracking application that runs on a standard Chrome web browser and supports an unlimited number of simultaneous users with separate dispatcher accounts. There is no need to install and upgrade client software and key dongles, simply sign into the application. The dispatch application supports instant group calling, texting, sharing images and audio recordings. Worker safety features include sending and receiving emergency alarms, and the dispatcher can activate remote ambient monitoring of audio during emergency situations. Dispatchers can also remotely stun (temporarily disable) and revive (turn on) or kill (permanently disable) remote radios that are lost, stolen, or used maliciously. HORIZON dispatch supports a customizable login screen, logo, and app icon to provide a unique, branded look and feel for the app.



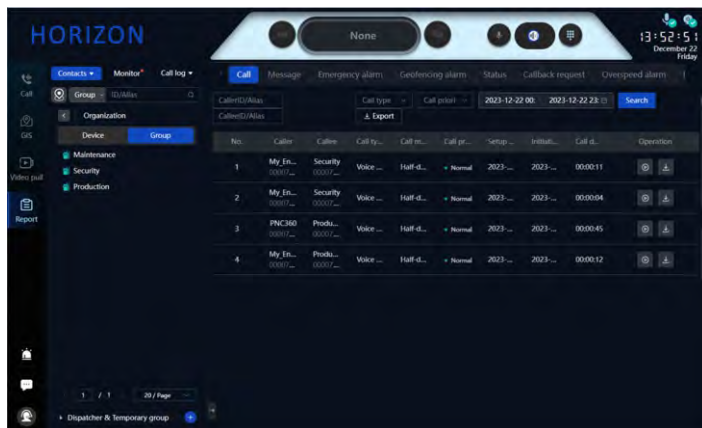
GROUP AND INDIVIDUAL CALLING

- HORIZON Dispatch leverages 4G/5G/LTE and Wi-Fi networks to provide secure and instant nationwide radio communications
- Instant nationwide group calling with a customized calling area where the dispatcher can create commonly used groups for dispatch operations
- Quickly and easily put individuals into a special impromptu call group when needed
- Supports full-duplex calls where users can speak any at any time, like on a cell phone



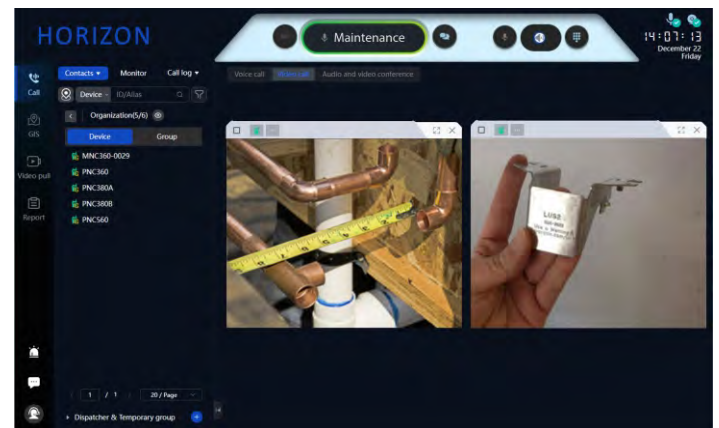
MAP WITH GPS FLEET LOCATION TRACKING

- Enables tracking of driver locations and travel routes with finely selectable time stamp rates
- See real-time GPS tracks and play back historical routes
- Speed and direction with customizable speeding alarm
- Configurable default map zoom level
- Define a virtual geographic boundary based GPS location tracking and receive alarms when workers enter or leave geofence areas



CALL RECORD STORAGE AND REPORTING OPTIONS

- Instantly review, play, search, and export logs for calls, messages, emergency alarms, geofencing alarms, and overspeed alarms
- Export reports to create tables, statistics, and graphs for individual and group call counts



MULTIMEDIA CAPABILITIES

- Dispatcher can share texts, images, and videos with workers in the field for fast decision making and solving problems

MNC360 PoC Mobile Radio



The Hytera MNC360 PoC mobile radios are professional-grade PoC devices that provide clear nationwide push-to-talk communication, instant group calling, and built in GPS for fleet tracking and dispatching with the HORIZON Dispatch application. Unlike cell-phones, tablets, and handheld devices, the MNC360 is a legal and DOT compliant device for safe communications while driving.

RELIABLE NATIONWIDE COVERAGE

- Cellular SIM card enables mobile network access for nationwide coverage with cellular LTE connectivity
- Dual LTE paddle antennas improve RX sensitivity by 3dB for excellent reception in weak signal areas

INDUSTRY LEADING AUDIO QUALITY

- AI-Based digital noise cancellation technology
- Distortion and howling suppression
- Exclusive patented acoustic speaker cavity and forward facing 4 Watt high-volume speaker
- Delivers excellent voice quality in loud environments

GPS POSITIONING

- Highly accurate external GPS antenna enables speed monitoring and real-time location tracking with breadcrumbs and geofencing with the Hytera Dispatch applications

COMPACT AND EASY TO INSTALL

- Weighing only 10.6 ounces, the MNC360 is compact and narrow for flexible installations
- Rotating mounting bracket for attaching the MNC360 on top of the dashboard or on a vertical surface in the vehicle
- Highly-sensitive, dual LTE antennas reduce the need to install an external antenna (depending on where the MNC360 is installed inside the vehicle)

DESIGNED FOR SAFETY

- Eyes stay on the road with raised tactile buttons, piano style keys, and lightweight handheld microphone for safe and simple push-to-call operation
- Emergency call button enables instant one-touch emergency calls to dispatcher and other PoC devices
- Speeding and driver fatigue notifications

CLEAR AND BRIGHT DISPLAY

- The LCD display screen is easily visible even in bright sunlight

FLEXIBLE INTEGRATION

- With the standard API and SDK, the MNC360 communications capabilities can be integrated into mobile fleet management and telematics applications

RICH WITH ACCESSORIES

- 3.5mm audio jack for wired earpiece accessories
- Micro USB 2.0 port for connecting and powering a variety of external devices
- Built-in Bluetooth for hands-free microphones and other wireless accessories
- 2-pin port for an external loudspeaker
- See page 13 for MNC360 Accessories



Hytera Handheld PoC Devices

NATIONWIDE COVERAGE

- National workforce communication with mobile 4G/5G/LTE cellular network connectivity using SIM cards

BUILT-IN WI-FI

- Built-in Wi-Fi supports in-building communications with seamless switching to cellular LTE networks when outside Wi-Fi range

GROUP CALLING

- Supports one-to-one individual calls, and group calls, and broadcast calls to all users for efficient communication

GPS POSITIONING

- GPS enables real-time tracking and positioning for the HORIZON Dispatch application

HIGH-QUALITY AUDIO

- AI-based digital noise suppression that learns human voice and extracts it from background noise in real time, and high-volume speakers for excellent voice quality in loud environments

BUILT-IN BLUETOOTH

- Built-in Bluetooth enables connectivity to earpieces, handheld Push-to-Talk microphones, and other wireless accessories

RELIABLE AND DURABLE

- Compliant with MIL-STD-810-H for shock and vibration
- IP67 or IP68 rated for water submersion and dust resistance

LONG-LIFE BATTERY

- Powerful Lithium Polymer battery delivers several days of operation on a single charge.
- Over 24 hours operation (over 40 hours with PNC360S)

TEXT MESSAGING

- Receive and view text messages sent from the Hytera dispatch app and other Hytera PoC devices

STUN AND REVIVE

- Dispatcher can remotely stun (disable) or revive (return to service) if the radio is lost or stolen

SAFETY FEATURES

- Emergency Alarms can be sent to other radios via the one touch programmable button
- Improves worker safety and emergency response time



PNC380S



PNC360S



PNC560

Connectivity	LTE (FDD-LTE, TDD-LTE, WCDMA, GSM) and Wi-Fi (2.4GHz 802.11) connectivity		+ 5GHz Wi-Fi
Standard Features	GPS, Bluetooth, AI-Based Digital Noise Cancellation, High-Power Speakers, Android Operating System, Long Life Batteries		
Keypad	Full Keypad	Partial Keypad	Touch Screen
Display	2.0" 320 x 240 TFT	1.75" 160 x 128 TFT LCD	6.3" Gorilla Glass, FHD+
Camera	8MP Rear Facing Camera	None	8 MP Front Wide-Angle Camera, 8 MP and 48 MP Rear Cameras
Compliance	MIL-STD-810 G, IP67, ESD IEC 61000-4-2, -4F to +140F Operating Temp.	MIL-STD-810 H, IP67, ESD IEC 61000-4-2, -4F to +140F Operating Temp.	MIL-STD-810 G, IP68, ESD IEC 61000-4-2, -4 to +140F Operating Temp.
Texting	Receive and send text messages	Receive texts and send preprogrammed messages	Receive and send text messages
Safety	Emergency button, Dispatcher Stun and Revive, Flashlight	Emergency (programmable) button, Dispatcher Stun and Revive	Dispatcher Stun and Revive, Flashlight
Battery	4,000mAh Li-ion Polymer, ≥24 hours	4,000mAh Li-ion Polymer, ≥45 hours	5,040mAh Li-Ion Polymer, ≥24 hours
Network SIM	Nano-SIM (8.8mm x 12.3mm)	Nano-SIM (8.8mm x 12.3mm)	2x Nano-SIM, 1x Micro SD
Ports	USB Type C Charging port, 3.5mm Audio	Micro USB 2.0, 3.5mm Audio, Dock Charger interface, Car Kit interface	USB Type-C Charging port, QC3.0 Fast Charging, 3.5mm Audio
Memory	1GB RAM, 8GB ROM, Micro SD/TF card, Expandable up to 32GB	1GB RAM, 8GB ROM	4GB RAM, up to 64GB ROM, Expandable up to 128GB, Micro SD card

PNC380S PoC Radio



The Hytera PNC380S PoC device is a feature-rich, and easy-to-operate handheld PoC radio designed for reliable business communications. Like all Hytera PoC devices, the PNC380S supports cellular LTE and Wi-Fi network connectivity, and features AI-based digital noise suppression, built in Bluetooth for wireless accessories, and GPS location tracking for use with the HORIZON Dispatch application. The PNC380S is rugged built to the IP67 standard for water and dust resistance, and the MIL-STD 810G for impact and vibration. It features a powerful 4000mAh Lithium-Ion Polymer battery that delivers up to 24 hours of operation.

CERTIFIED NATIONWIDE COVERAGE

- PTCRB Certified
- AT&T and T-Mobile approved device fully tested by for reliable nationwide connectivity

HIGH-DEFINITION CAMERA

- Equipped with a rear-facing 8 megapixel rear camera, the PNC380S enables sharing pictures and videos with the HORIZON Dispatch application and other PoC devices

ERGONOMIC DESIGN

- Compact and ergonomic design with easy-access buttons enables comfortable one-hand operation
- Reversible belt clip for carrying with screen facing in or out

TFT LCD DISPLAY

- Display provides high-resolution visibility even in bright daylight
- Easy-to-use menu system with clean and simple navigation

CAR KIT

- Dash-mount car kit available for safe in-vehicle calling (see page 12)
- Features optional external speaker, palm microphone, visor microphone, and both wired and Bluetooth Push-to-Talk buttons

TEXT MESSAGING

- Send, receive, and view text messages between dispatcher and other Hytera PoC devices
- Also supports sending recorded audio messages

SAFETY FEATURES

- One-touch Emergency button enables emergency calls to dispatcher and sending alarms to other radios
- Dispatcher can remotely stun (disable) or revive (return to service) if the radio is lost or stolen
- Built-in LED flashlight



PNC360S Compact PoC Radio

BUILT-IN GPS

EMERGENCY BUTTON

PUSH-TO-TALK

VOLUME CONTROL

LONG-LIFE BATTERY

COMPACT AND LIGHTWEIGHT

HIGH-PERFORMANCE ANTENNA

LED INDICATOR

160 X 128 TFT LCD DISPLAY

MIL-STD AND IP67 RATED

BUILT-IN WI-FI AND BLUETOOTH

ACCESSORY PORT

USB DATA/CHARGING PORT

MENU NAVIGATION

BEST IN CLASS AUDIO QUALITY

The Hytera PNC360S PoC device is a compact and easy-to-operate handheld PoC radio that is surprisingly feature rich for the price. Like all Hytera PoC devices, the PNC360S supports cellular LTE and Wi-Fi network connectivity, and features AI-based digital noise suppression, built in Bluetooth for wireless accessories, and GPS location tracking for use with the HORIZON Dispatch application. The PNC360S is rugged built to the IP67 standard for water and dust resistance, and the MIL-STD 810H for impact and vibration. It features a powerful and fast charging 4000mAh Lithium-Ion Polymer battery that delivers over 40 hours of operation on a single charge.

HIGH-QUALITY AUDIO

- Digital noise suppression and high-volume speakers for excellent voice quality in loud environments
- Adjustable microphone gain sensitivity feature allows users to adjust the radio settings so that they don't have to speak directly into the microphone, for example, when the radio is being worn on a vest like a remote speaker microphone

TFT LCD DISPLAY

- The TFT LCD display provides high-resolution visibility even under bright daylight
- Supports an easy-to-use GUI menu system with clean and simple navigation

TEXT MESSAGING

- Receive and view text messages sent from dispatcher and other Hytera PoC devices

EMERGENCY AND SAFETY FEATURES

- Emergency Alarms can be sent to other radios via the one touch programmable button
- Safety Alert function provides alerts to the user using a pre-recorded voice message sent at predefined time intervals to remind remote users to check in or that a regular task is due
- Dispatcher can remotely stun (disable) or revive (return to service) if the radio is lost or stolen
- Improves worker safety and emergency response time



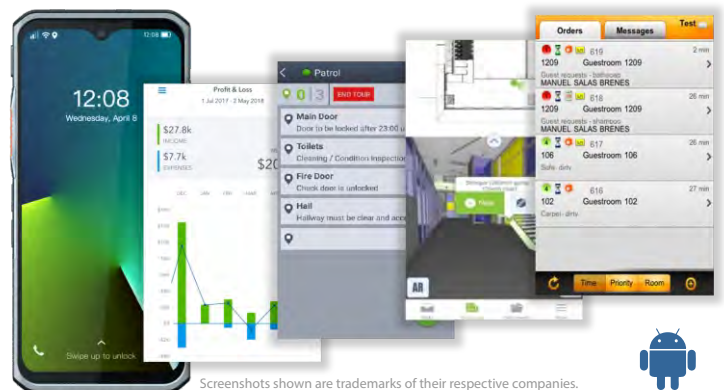
PNC560 PoC Smart Device with Scanner



The PNC560 is unified PoC communications device, a mobile Android computer, and scanner for all-in-one ease of use in warehouse, delivery, inventory, and medical applications. Like all Hytera PoC devices, the PNC560 supports cellular LTE and Wi-Fi network connectivity, and features AI-based digital noise suppression, built in Bluetooth, and GPS location tracking for use with the HORIZON Dispatch application. The PNC560 is rugged built to the IP68 standard for water and dust resistance, and the MIL-STD 810G for impact and vibration. It features a powerful and fast charging 5040mAh Lithium-Ion Polymer battery that delivers over 24 hours of operation on a single charge.

BUILT-IN SCANNER

- The PNC560 features an integrated infra-red scanner head that reads 1D and 2D barcodes in milliseconds from up to two feet away
- Supports a variety of Android-based inventory and logistics applications, and an API is available for custom app development



RUNS ANDROID APPS

- Unified communications device that runs Android 12 business apps

6.3 INCH TOUCHSCREEN DISPLAY

- Large screen displays more information for multiple operations

THREE HIGH-DEFINITION CAMERAS

- The PNC560 features three separate high resolution cameras, including an 8MP screen-facing, wide-angle camera, and 8MP telephoto and 48MP wide-angle rear-facing lenses
- Low-light photography and lens stabilization algorithm to reduce motion blurring
- Enables sharing high-resolution images and videos with the HORIZON Dispatch application and other PoC devices
- Reads QR codes and supports QR applications

DUAL SIM

- Dual SIM cards provide flexibility for two network data plans

SECURITY PROTECTION

- The PNC560 features fingerprint unlock integrated with side power button and biometric face authentication unlock.
- Android secure boot, file-based encryption and safebox file storage

Hytera PoC Handheld Device Accessories



PNC380S



PNC360S



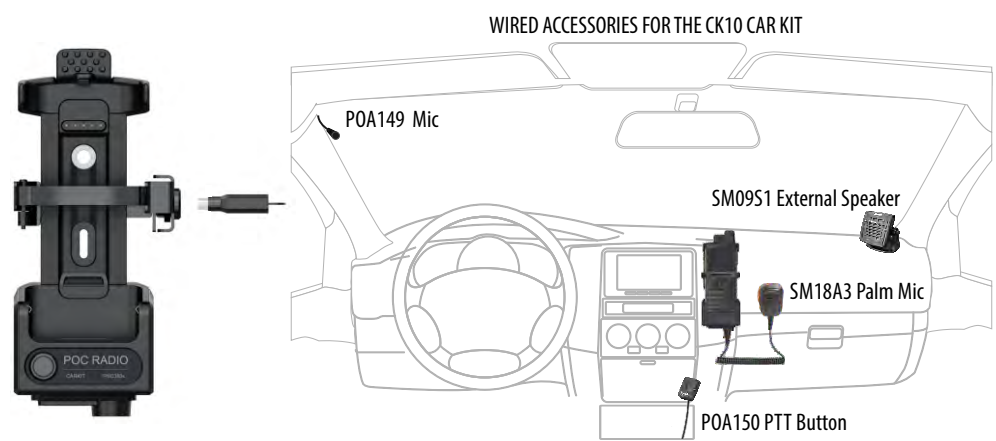
PNC560

Standard			
Optional			
Lithium-Ion Polymer Battery	 BP4006 4000mAh	 BP4008 4000mAh	 BP4003 4000mAh
Power Adapter	 PS2023 Power Adapter		 PS3006 Power Adapter
Charging and Programming Cable	 PC80 USB Micro	 PC143 USB Type C Cable	 PC158 USB Type C Cable
Belt Clips and Cases	 BC50 Radio Reversible	 BC51	 POA207 / BRK37/ BC37**
Wrist Strap	 R003		N/A
Desktop Charger	 MCL23 6-Unit Dual Pocket*	N/A	 CHL20L19 Single Unit
Wired Earpieces	 		
Bluetooth Wireless Accessories	  		

*Dual Pocket chargers have charging slots for both a radio and a battery. **The PNC560 carrying case is available with a handheld strap (POA207), a surface mounting bracket (BRK37), and a belt clip (BCR37 for the PNC5207)

Optional CK10 CAR KIT for the PNC380S PoC Radio

The CK10 CAR KIT is a rugged vehicle mounting assembly that enables the PNC380S to be installed on a vehicle dashboard and comply with DOT requirements. The Car Kit allows the PNC380S to be easily removed for handheld job-site communications. The Car Kit includes a locking bracket, an on/off power button, and ports for external speakers, microphones, and push-to-talk buttons. The CAR KIT also functions as a docking charger for the PNC380S.



MNC360 PoC Mobile Device Accessories

Standard

Optional

SM16A1 Handheld Microphone with Mounting Bracket	PWC34 Power Cord	AN1700W01 Two LTE Paddle Antennas	GPS04 External GPS Antenna	BRK33 Radio Mounting Bracket and Screws
SM09C1 External Amplified Speaker	SM10A1 Desktop Microphone	SM27W2 Bluetooth Handheld Speaker Microphone with Mounting Bracket	EHW08 Bluetooth Earpiece with Microphone	SEC1223 External Power Supply for Desktop Operation

Hytera PoC Protection Plan

The optional Hytera PoC Protection Plan covers repairs for one accidental damage instance within two years of purchase. Must be purchased at the time of initial purchase of the PoC device.



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