

# HORIZON



## Nationwide Push-to-Talk over Cellular 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

# HORIZON

## **HORIZON is the fastest growing and most reliable PoC service platform.**

**HORIZON is a nationwide communications platform for small and medium sized businesses, and is scalable to large enterprises with thousands of users.**

HORIZON is a nationwide communication platform that uses the LTE cellular infrastructure of Mobile Network Operators and Wi-Fi networks to access the cloud-based PoC servers. HORIZON supports all of the rugged and feature-rich Hytera PoC devices and includes HORIZON Dispatch, a web-based dispatching application for centralized group calling and GPS location tracking.

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### **NATIONWIDE COVERAGE**

- HORIZON leverages cellular LTE and Wi-Fi networks to provide secure and instant nationwide radio communications
- Optional multi-carrier SIM supports three mobile carriers and switches over when a carrier's signal is no longer present

### **MOST RELIABLE POC SYSTEM AVAILABLE**

- Advanced cloud servers provide the most reliable nationwide PoC services available
- Geo-diverse server redundancy and resiliency for the highest level of service availability

### **LOW COST AND RAPID DEPLOYMENTS**

- HORIZON uses existing cellular LTE networks so there is no radio system infrastructure or frequency license required
- PoC systems are quickly deployed with radios that work out-of-the-box

### **GROUP AND INDIVIDUAL CALLING**

- Instant one-to-one (individual) calls, or one-to-many (group) calls to different groups
- Quickly build dynamic call groups with a simple list selection or geographically by selecting an area on the dispatch map

### **CROSS-ENTERPRISE CALLING**

- Supports cross-enterprise group calls to any other company using HORIZON PoC service
- Enables efficient collaboration with partner organizations

### **MULTIMEDIA COMMUNICATIONS**

- PoC devices with cameras can take and share pictures with dispatch and other users
- Supports free-form or pre-programmed text messages
- HORIZON Dispatch enables sharing pictures, videos, and sending group texts

### **SCALABLE AND FLEXIBLE**

- The HORIZON PoC platform is an excellent solution for small and medium size organizations, and is scalable to large enterprises with thousands of users
- The wide variety of PoC devices, interconnect solutions, and both LTE and Wi-Fi network connectivity makes HORIZON flexible to fit the needs of any organization

### **UNLIMITED CHANNELS**

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

### **GPS LOCATION TRACKING**

- PoC devices with integrated GPS enable location tracking with the HORIZON Dispatch application
- Enables tracking of driver locations and travel routes with time stamps

### **SECURITY AND PRIVACY**

- Quantum, ARC4, SM4, and AES 128/256 encryption provides secure and private end-to-end calling

### **SAFETY FEATURES**

- Supports sending and receiving Emergency Alarms for enhanced worker safety
- Dispatcher can remotely monitor audio during emergency situations

### **CALL RECORDING**

- Record group calls as .wav files on the PoC devices
- Capture call content and playback on PC to retrieve and document important call information

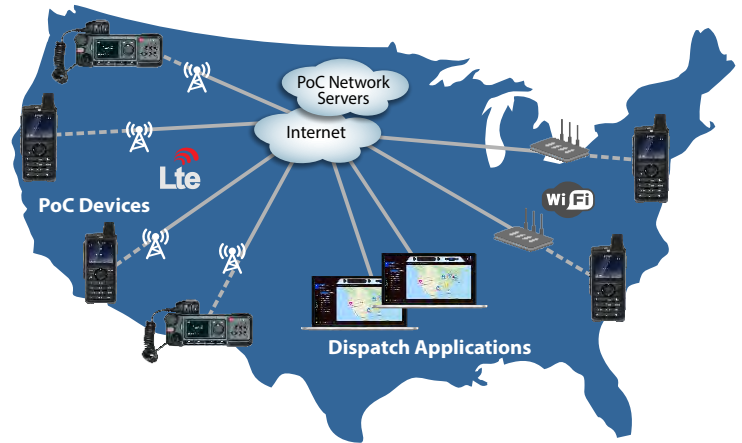
### **OPERATIONAL CONTROL**

- Customer system management is available with a web based operations console for large enterprise customers that want comprehensive control over the PoC system and devices
- Custom branding available for the dispatch app and app icons on devices

# How HORIZON PoC Works

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 nationwide 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 LTE cellular infrastructure of Mobile Network Operators.

HORIZON services are hosted on the cloud using PoC servers (network appliances). Gateway routers provide connectivity between the LTE network and the cloud hosted PoC controller.



## Hytera PoC Devices

- Variety of Devices and Feature Sets
- 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

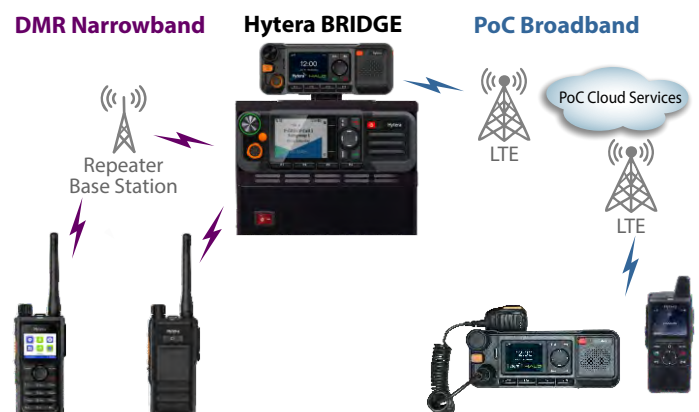


## Hytera BRIDGE PoC System Interconnect Solution

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 and dispatcher accounts. There is no need to install and upgrade client software and key dongles, simply sign into the application.

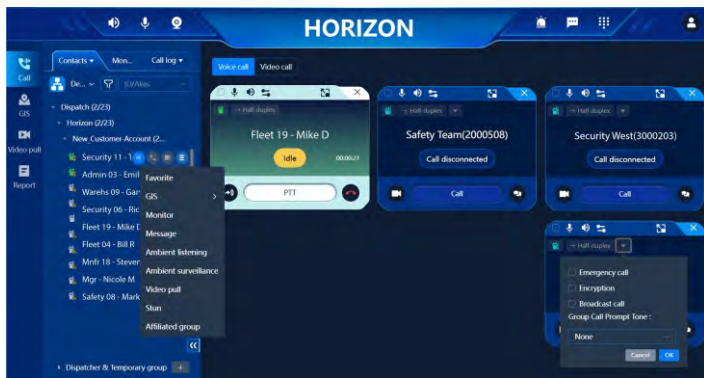
HORIZON dispatch supports multiple group and individual calls, texting, and sharing of images and audio recordings.

Dispatchers can customize views with multiple windows on different monitors and move call tiles to any open window,

making the handling of multiple calls much easier and faster. Each calling tile has separate volume controls and calling options.

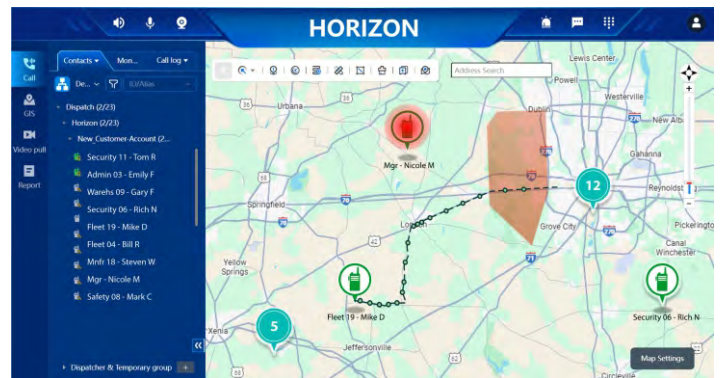
Worker safety features include sending and receiving emergency alarms, and the dispatcher can activate remote ambient monitoring of audio during emergency situations. Dispatchers can also remotely stun or revive remote radios that are lost, stolen, or used maliciously.

HORIZON dispatch also supports customer logos, and app icons to provide a unique, branded look for the app.



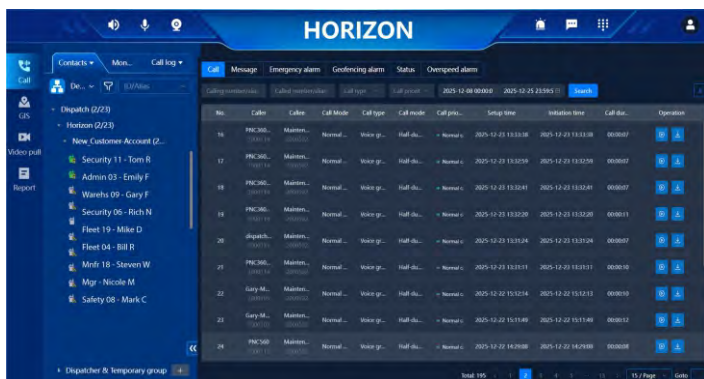
## GROUP AND INDIVIDUAL CALLING

- HORIZON Dispatch leverages 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 individual 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
- GPS location points also include street addresses
- 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 FLEET 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 cellular LTE 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, 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 / PNC560S

Wi-Fi	2.4GHz and 5GHz 802.11b/g/n/ac	2.4GHz 802.11	2.4GHz and 5GHz 802.11b/g/n/ac
Cellular	4G/LTE (FDD-LTE, TDD-LTE, WCDMA, GSM)		4G/LTE (FDD-LTE, TDD-LTE, WCDMA, GSM) and 5G NR
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, 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 PNC560S has an Emergency button
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 32GB 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 dual Wi-Fi (2.4 GHz and 5 GHz) 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 built rugged to meet 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.

## 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

## 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



# 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 radio is a compact and easy-to-operate handheld PoC device 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 built rugged to meet 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 and PNC560S PoC Smart Devices



The Hytera PNC560 and PNC560S are handheld smart devices that combine the advantages of a compact mobile computer and a data collection terminal with the ruggedness, enhanced audio quality, and instant Push-to-Talk group communications of a professional PoC device. The PNC560 features a built-in infrared scanner for warehouse, inventory management, and medical applications. The PNC560S is a cost-effective model without a scanner. The PNC560 and PNC560S support cellular 4G/LTE and 5G, along with dual Wi-Fi (2.4 GHz and 5 GHz) network connectivity, and feature AI-based digital noise suppression, built in Bluetooth, and GPS location tracking for use with the HORIZON Dispatch application. They are 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.



## 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

- An 8MP screen-facing, wide-angle camera, and 8MP telephoto and 48MP wide-angle rear-facing lenses
- 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

## 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



# Hytera PoC Handheld Device Accessories





















**PNC380S**



**PNC360S**



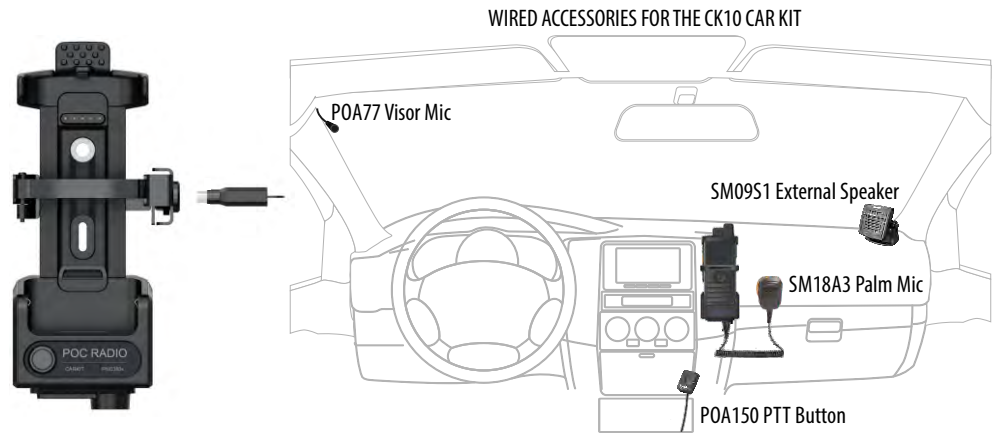
**PNC560 / PNC560S**

Standard			
Optional			
Lithium-Ion Polymer Battery	 BP4006 4000mAh	 BP4008 4000mAh	 BP4901 4000mAh
Power Adapter	 PS2023 Power Adapter		 PS3006 Power Adapter
Charging and Programming Cable	 PC80 USB Micro	 PC158 USB Type C Cable	
Belt Clips and Cases	 BC50 Radio Reversible	 BC66	 POA207 Protective Carrier with Hand Strap**
Wrist Strap	 R003		N/A
Desktop Charger	 MCL23 6-Unit Dual Pocket*	N/A	 CHL20L19 Single Unit
Wired Earpieces	 EHS30 Earpiece with in-Line PTT & C-Earset		 EAS07 Transparent Tube 3.5mm Wired Earpiece with PTT Mic
Bluetooth Wireless Accessories	 EHW08 C-Style Earpiece with Boom Microphone	 SM27W2 Handheld Speaker Microphone (IP67) with Mounting Bracket	 POA121 PTT Ring

\*Dual Pocket chargers have charging slots for both a radio and a battery. \*\*The POA207 carrying case comes with a handheld strap and an optional belt clip (BC39) is also available.

# 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.



# HORIZON



## The Fastest Growing and Most Reliable Push-to-Talk over Cellular Platform



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