Hytera | HALO





Hytera PNC550

Push-to-Talk over Cellular Smartphone

The Hytera PNC550 is a Push-to-Talk over Cellular (PoC) device and smartphone designed for business and nationwide remote workforce communications. The PNC550 combines the advantages of a smartphone with the ruggedness, enhanced audio quality, and instant Push-to-Talk group communications of a professional PoC device. It supports Android business apps to provide unified operations and communications in a single device.

The Best of Both Worlds

- Supports both Push-to-Talk over Cellular (PoC) and Phone Calls
- Rugged and Purpose Built for Professional Communications
- Seamless Switching between Cellular LTE and Wi-Fi Networks
- Supports Hytera HALO Dispatch and Android Apps
- Features Instant Voice and Video Group Calling

The PNC550 is supported on the Hytera HALO Nationwide PoC solution that uses cellular 3G/4G/LTE infrastructure, on Hytera HALO OnSite Push-to-Talk over Wi-Fi networks, and the Hytera HALO Connect unified PoC and LMR platform. The PNC550 can run Hytera HALO Dispatch, a powerful web-based group communications and location tracking application.



PNC550 Key Features

NATIONWIDE COVERAGE
- National wide-area communication with mobile 3G/4G/LTE connectivity

BUILT-IN WI-FI
- Built-in Wi-Fi supports in-building communications with seamless switching to LTE networks when outside Wi-Fi range

INSTANT GROUP AND INDIVIDUAL CALLING
- Push-to-Talk button initiates instant voice or video calls to groups or individuals
- Supports instant group calling from the HALO Dispatch web-based communications and location tracking application

HIGH-DEFINITION LIVE VIDEO
- Features a 13 megapixel rear camera with flash and an 8 megapixel front camera
- Enables real-time video calling with the Hytera HALO Dispatch application and other PoC devices

HIGH-QUALITY AUDIO
- Digital, dual mic noise suppression and high-volume speaker for excellent voice quality in loud environments

DUAL SIM
- Dual SIM cards provide flexibility for two network access plans, one for PoC and the other for a cellular plan or data-only plan

GPS POSITIONING
- GPS enables real-time tracking and positioning for the Hytera HALO Dispatch application

ERGONOMIC DESIGN
- Lightweight and ergonomic design with easy-access buttons enables comfortable one-hand operation

5 INCH GORILLA GLASS DISPLAY
- 5-inch, multi-touch Gorilla Glass display with 1280×720 WVGA resolution
- Supports wet touch and glove touch operation

ANDROID OPERATING SYSTEM
- Supports Android business apps for unified communications
- Can run the Hytera HALO Dispatch web-based application
- Open API and SDK allow third party developing customized applications

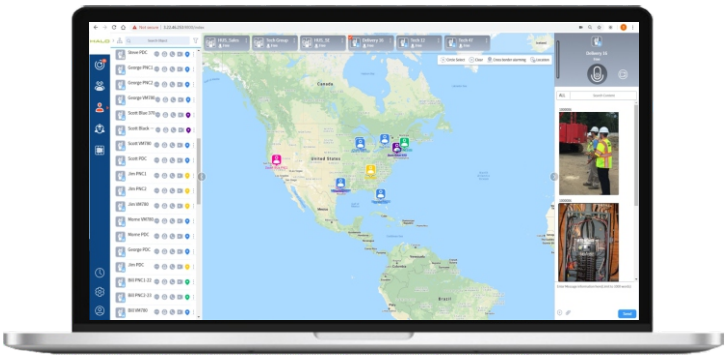
RUGGED AND DURABLE
- Compliant with MIL-STD-810-G for shock and vibration
- IP68 rated for complete water and dust resistance

LONG-LIFE BATTERY
- Powerful 4,000mAh Lithium-Ion Polymer battery delivers up to 24 hours of operation
- Supports fast charging by desktop charger and USB

TEXT MESSAGING
- Send, receive, and view text messages between dispatcher and other Hytera PoC devices

SAFETY FEATURES
- One-touch Emergency button enables one-touch emergency calls to dispatcher and other PoC devices

Hytera HALO



The PNC550 and other Hytera PoC devices are part of the Hytera HALO Nationwide Push-to-Talk over Cellular solution that includes a powerful web-based dispatch application.

Hytera HALO Dispatch supports instant group and individual voice and video calling. Dynamic groups can be quickly created with a simple list selection or geographically by selecting an area on the dispatch map. Hytera HALO Dispatch leverages the GPS built into the PNC550 for tracking of driver locations with travel routes and geofencing.

The PNC550 is also supported on Hytera HALO OnSite, a Wi-Fi based radio system for use in hospitals, arenas, schools, convention centers, and other large facilities with Wi-Fi access.

Hytera SmartGuard

Hytera SmartGuard is a biometrics access control solution that provides safe, non-contact body temperature screening to reduce the risk of virus transmission, and facial recognition to validate employee identity for building access.



The SmartGuard includes web-based management software that tracks interactions with SmartGuard devices throughout a facility. Employees can use Hytera PNC550 handheld terminals with the SmartGuard app to monitor SmartGuard interactions and receive temperature violation alarms.







The PNC550 features a 13MP rear camera with flash and an 8MP front camera for hi-resolution photos and video conferencing

Standard Accessories



R001
Nylon Hand Strap



PS2038
5V/2A USB Power Adapter



BP4003
4000mAh Li-Ion Polymer Battery



CH20L14
Desktop Charger

Optional Accessories



BC49
Case and Belt Clip



EHS24
C-Style 3.5mm Wired Earpiece



POA121
Bluetooth Push-to-Talk Ring and Charging Cable

Specifications

Standards and Frequencies	
LTE	FDD-LTE：B2/B3/B4/B5/B7/B12/B13/B17/B26/B28 TDD-LTE：B38 WCDMA：B2/B4/B5 GSM：850/900/1800/1900
WCDMA	B1/B3/B5/B8
GSM	850/950/1800/1900MHz
Wi-Fi	2.4GHz 802.11b/g/n
Bluetooth	BT 4.1
Positioning System	GPS
Near Field Communications	NFC Supported
Audio Formats	MP3, eAAC, Windows Media Audio 9/10/Pro
Video and Image Formats	VP8, VP9, H.264 (BP/MP/HP), MPEG-4 (SP/ASP), H.263, H.265
Transceiver	
Audio Power Output	Maximum 2W
Microphone	2 (Dual mic noise suppression)
Environmental	
Operating Temperature	-4°F to +140°F (-20°C to +60°C)
Storage Temperature	-22°F to +158°F (-30°C to +70°C)
ESD	IEC 61000-4-2 (Level 4) ±8kV Contact, ±12kV Air
Dust and Water Ingress	IP68 Standard
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock and Vibration	Per MIL-STD-810 C/D/E/F/G Standard

General	
Battery	4000mAh (Li-Ion Polymer)
Battery Life (5/5/90)	Up to 24 Hours
Weight	8.8oz (250g)
Dimensions (H x W x D)	6 1/8" x 3" x 1/2" (156 x 76 x 14mm)
Operating System	Android 8.1
Memory	3GB RAM + 32GB ROM, Expandable to 64GB
Card Slots	2x Nano-SIM, 1x MicroSD
Display	5" Gorilla Glass 1280 x 720 WVGA Supports Capacitive Touch, Multi-Touch, Wet Touch, and Glove Touch
Camera	13MP Front Facing, 8MP Rear Facing
Ports	USB 2.0 Type Q Charger Interface 3.5mm Audio Interface
Operating Voltage	3.7V
Physical Interface Buttons	1x Push-to-Talk, 2x Volume (+/-), 1x Emergency, 1x Power
Sensors	Gravity, Compass, Proximity, Light

Ordering Information

Part Number	Description
PNC550	Push-to-Talk PoC Device and Smartphone

Hytera

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