Hytera

PDC580

Dual-Mode Rugged Radio

Unleash the power of LTE and DMR

www.hytera-europe.com

PDC5 Series

The PDC5 Series dual-mode rugged radio is a push-to-talk over cellular (PoC) radio, a DMR radio, a call recorder, and a voice gateway — all in one. It delivers instant, secure, and stable communications, empowering the professionals working in railway, security or electricity to keep safe and efficient, any where and any time.

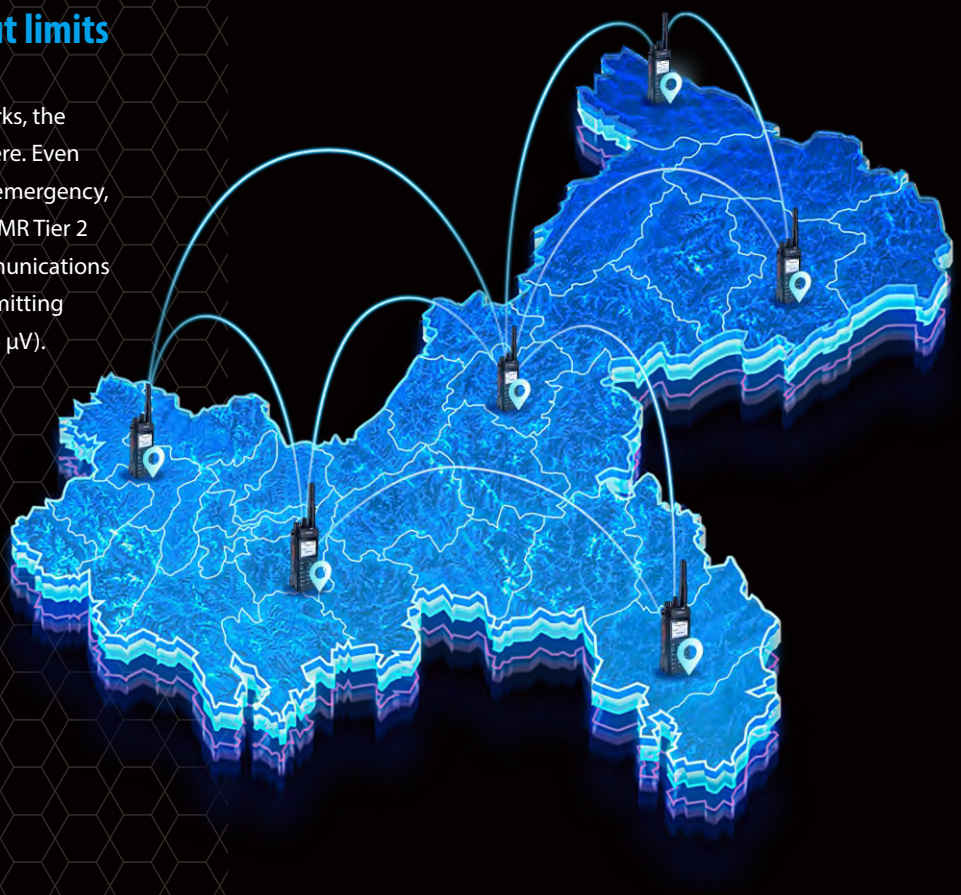
Optimized by the know-how from Hytera RF&Antenna Lab, Audio Lab, Energy-efficient Lab, and UX Lab, the PDC5 Series is packed with various innovative features for your daily tasks— leading-edge connectivity across narrowband (DMR) and broadband (LTE), exceptional audio performance, effortless PoC-DMR Simul-Call, expanded interoperability, and long duration call recording, etc. All of these will exceed your expectations for communication and convenience.

Communicate without limits

Engineered to run on ultra-fast LTE networks, the PDC5 Series keeps you connected anywhere. Even when the LTE network is down during an emergency, the PDC5 Series still has your back. With DMR Tier 2 technology, it provides stable direct communications over a long distance, thanks to high transmitting power (5 W) and receiving sensitivity (0.16 μV).

5 W
High transmitting power

0.16 μV
Receiving sensitivity



Louder and clearer

The PDC5 Series delivers unprecedented loudness up to 100dB, relying on its powerful speaker and audio enhancement technology. Together with the advanced noise cancellation algorithm, wind noise reduction and water porting design, this radio always ensures that every call is crystal clear, even in crowded and noisy areas.

Advanced noise cancellation

100dB
Audio loudness

Tackle the tough outdoor conditions

The PDC5 Series is a truly rugged radio. It meets IP67, MIL-STD-810H, and ESD IEC level-4 standards, surviving almost any challenges from water, dust, and 1.5-meter drops to extreme temperatures. Even when the ambient temperature is down to -30°C, the PDC5 Series still performs well.

IP67
Water and Dust Protection

-30°C
Ambient temperature

Time-saving PoC&DMR Simul-Call

The PoC&DMR Simul-Call allows you to initiate the PoC call and the DMR call simultaneously with one press of the primary PTT key, saving your time and effort.

PoC- DMR voice gateway

Serving as a gateway, the PDC5 Series bridges PoC and DMR networks to ensure seamless communications across different radios which include PoC, DMR and analog.

Record every important call

The PDC5 Series allows you to record voice calls, and easily play back the latest recording with one touch. Thanks to the non-removable built-in chip, all recordings are prevented from removal and tampering, ensuring data integrity and security.

Built-in chip

Lasting over an entire shift

Built on high energy density technology, the PDC5 Series has a large-capacity battery of 3,000 mAh (operating voltage: 7.7 V) in a compact size. It offers extended operational hours to cover your entire shift. A 30-minute charge will give you up to 8 hours of use, thanks to the USB Type-C fast charging technology.

3,000 mAh
Large capacity battery

8 hours
A 30-minute charge

Various designs for easy usage

With the Hytera PoC platform integrated, the PDC5 Series is ready to talk once you insert a SIM card. The 1.77-inch transflective LCD is highly readable even in direct sunlight or in standby mode when the backlight is off. The UI features two vertical parts to show you PoC and DMR information simultaneously. Plus, the PDC5 Series has two PTT buttons — the main PTT is for PoC calls, and the other one is for DMR.

PTT
Two buttons

1.77-inch
Transflective LCD

Rich accessory connections

The PDC5 Series supports wired connections with the 13-pin professional accessory connector and wireless connections with the BT 5.3 technology. So you can easily connect the palm microphone, earpiece, and various audio accessories to the radio, to empower your operations.

Applicable Industry

Specifications

Wireless Data Communication	
DMR/Analog	UHF1: 400–470 MHz VHF1: 136–174 MHz
Broadband	FDD-LTE: B1/B3/B5/B7/B8/B20/B28 TDD-LTE: B38/B40/B41
BT (Optional)	V5.3
Positioning	GPS, BDS, Galileo, Glonass TTFF (cold start) < 50s (CEP for 95%, –130 dBm) Horizontal accuracy < 1 m (CEP for 90%, –130 dBm, GPS + BDS > 16 satellites)
General	
Dimensions (H x W x D)	128 mm x 55 mm x 37 mm
Weight	345 g
Port	USB Type-C port 13-pin accessory connector
Display	1.77-inch LCD, 160 x 128 pixels
Card Slot	1 x Nano SIM card
Battery	3,000 mAh Li-Ion battery
Operating Voltage	7.7 V (rated)
Transmitter/Receiver	
Channel Spacing	12.5/20/25 kHz
TX Power	1 W/5 W
RX Sensitivity	Analog: 0.16μV/-123dBm (12dB SINAD) Digital: 0.16μV/-123dBm @BER5% (typical)
Audio Output Power	1.5 W (rated)
Digital Vocoder	AMBE+2™
Environment	
Operating Temperature	−30°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
Water and Dust Protection	IP67
ESD	IEC 61000-4-2 (level 4), ±8 kV (contact), ±15 kV (air)
Humidity	Per MIL-STD 810 H, ≤ +65°C, 95%RH
Shock and Vibration	MIL-STD-810 H

Accessories

● Standard ● Optional

● 3,000 mAh Li-Ion Battery
BP3005

● Charger (1 A)
CH10L30

● Power Adapter
PS1018(EU), PS1014(US), PS1017(AU)

● Belt Clip
BC48

● Antenna
AN0437H09

● Strap
RO03

● 2,400 mAh Li-Ion Battery
BP2409

● Wireless PTT
POA121

● Wireless Remote Speaker Microphone
SM27W2

● C-Earset
EHN26-P

● Programming Cable
PC156

● HySEIS Enhanced Multi-Unit Charger

Hytera
Respond & Achieve

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