

## PDC550

### Multi-mode Advanced Radio



#### Broadband and narrowband convergence

PDC550 enables the collaboration of multiple communication modes including broadband and narrowband networks as well as public and private networks in multiple scenarios. Users can not only hear but also see everything clearly on their display. So they can calmly respond, control the situation, and make decisions in the shortest time.

#### Rugged and compact design

With its exquisite structural design, IP68, military standard (MIL-STS-810 G), 1.2m drop-proof design, PDC550 can handle harsh environment.

#### Open platform, endless opportunities

PDC550 provides high compatibility and security performance. Multiple applications can run on it. Open API allows third party developing customized applications such as OR code recognition, facial recognition and license plate recognition.



# Technical Data PDC550

Standard Functions and Frequency Ranges	
DMR	UHF: 400 – 470 MHz
LTE	TDD-LTE: B1 / B3 / B5 / B7 / B8 / B20 / B26 / B27 / B28
CDMA WCDMA	BCO B1 / B3 / B5 / B8
GSM	850 / 900 / 1800 / 1900 MHz
Wi-Fi	2.4 GHz, 802.11 b/g/n
NFC	Available (Payment is not supported)
Bluetooth	BT 4.1 (shared for broadband and narrowband networks)
Positioning System	GPS, AGPS, GLONASS, Galileo, BeiDou
Sensors	Gravity sensor, compass, distance sensor, optical sensor

General Specifications	
Dimensions (H x W x D)	155 x 75 x 21.5 mm
Weight (with antenna & battery)	375 g
Memory	3 GB RAM + 32 GB ROM, expandable memory (maximum 128 GB)
Screen	5.0-inch HD touch screen, 1280 x 720 resolution
Cameras	Rear 13 mega-pixel camera Front 5 mega-pixel camera
Card Slots	2x Nano SIM card slot, 1x Micro SD card slot
External Interfaces	Hytera dedicated 13-pin interface, Charging interface for charger, Antenna interface (SMA interface, shared with Td5)
Key	1x PTT, 2x programmable key, 1x alarm key, 1x power key
Flashlight	Available
Charging Mode	Charging with charger, 2 A charging
Volume Knob	Available (shared with the channel knob)
Operating Voltage	7.6 V (rated)

Transmitter	
Channel spacing	12.5 / 20 / 25 kHz
Transmitting power	1 W / 4 W
Audio power output	1 W (rated) max.: 2.5 W (rated)
Microphone	3 (Dual-microphone noise suppression)

Environmental Conditions	
Protection against dust & moisture	IP68
Humidity	MIL-STD-810
Shock and vibration resistance	MIL-STD-810 G
ESD	IEC 61000-4-2 (Level 4) ±8 kV (contact) ±12 kV (air)
Operating temperature range	-20 °C to +60 °C
Storage temperature range	-30 °C to +80 °C
Drop resistance	1.2 m

Supported Formats	
Supported video formats	H.263, PO, H.264, BP/MP/HP, MPEG-4, SP/ASP, DivX, 4x/5x/6x, VP8, VP9
Supported image formats	JPEG (.jpg), GIF (.gif), PNG (.png), BMP (.bmp), WEBP
Supported audio formats	MP3, aacPlus, eAA, AMR-NB, AMR-WB, G.711, Windows Media Audio, (WMA) 9/10 Pro
Video Shooting	1080P, 30fps

Battery	
Standard battery	2400 mAh
Optional battery	3500 mAh

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.



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Encryption features are optional and have to be configured separately; they are also subject to German and European export regulations.

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