

# W-PD80

450MHz LTE  
5G Dual-mode

## MCX Smart Device



# Overview

The W-PD80 is a 5G dual-mode communication device built with advanced hardware architecture and robust security technologies. Compliant with 3GPP Release 15, it supports access to 450 MHz LTE networks, enabling efficient transmission of voice, video, and data services. Its high reliability and strong performance make it ideal for mission-critical operations where stable connectivity is essential.

## 450MHz Antenna

Support B31/72

## Top Screen

0.96-inch

## Triple-Camera

Front 8M

Rear 64M+8M

## SOS

## 4.7-inch

FHD Screen

Smooth Operation with  
Gloves and Wet Hands

## 7600mAh

Fast charging

## IP68 & 1.5m Drop



## Corning® Gorilla Glass 3

4.7-inch FHD Display

Smooth Operation with  
Gloves or Wet Hands

4.7  
inch

0.96  
inch



## Android 16 OS

Enhanced App Compatibility



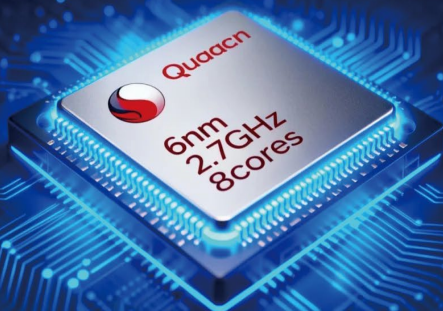
## High-Performance

6nm Qualcomm® Chipset

8-core CPU, 2.7GHz

Advanced 5G & Multi-Band

Connectivity



## Long Battery Life

7600mAh battery with 18W QC4.0

Fast-charging

Optimized Power Efficiency



7600  
mAh

# Triple Cameras

- 📷 Front 8M and Rear 64M+8M cameras
- 🌙 Super Night Vision Mode
- 📐 6-axis Gyroscope Anti-shake
- 4K 4K high-definition video transmission
- HDR HDR High dynamic range imaging





## Loud and Clear

3W ultra speaker reaching up to 102dB at 5cm  
AI-powered audio algorithm & optimization tech

## 16K HD Audio

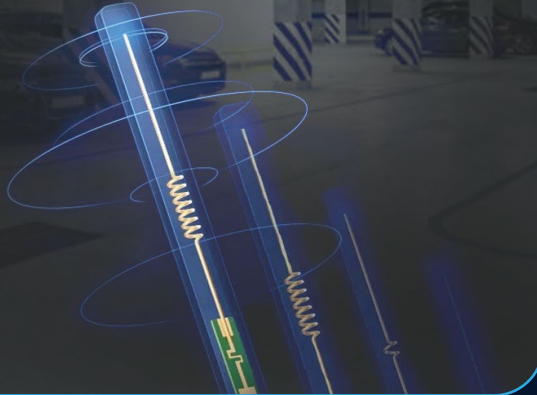
AI-based noise cancellation technology  
Wideband HD voice with a 16K sampling rate

## Hi-Fi Voice Quality

Lossless sound quality  
Stereo surround sound

## 4W High Power

Up to 4W transmission power  
3.6V supply voltage



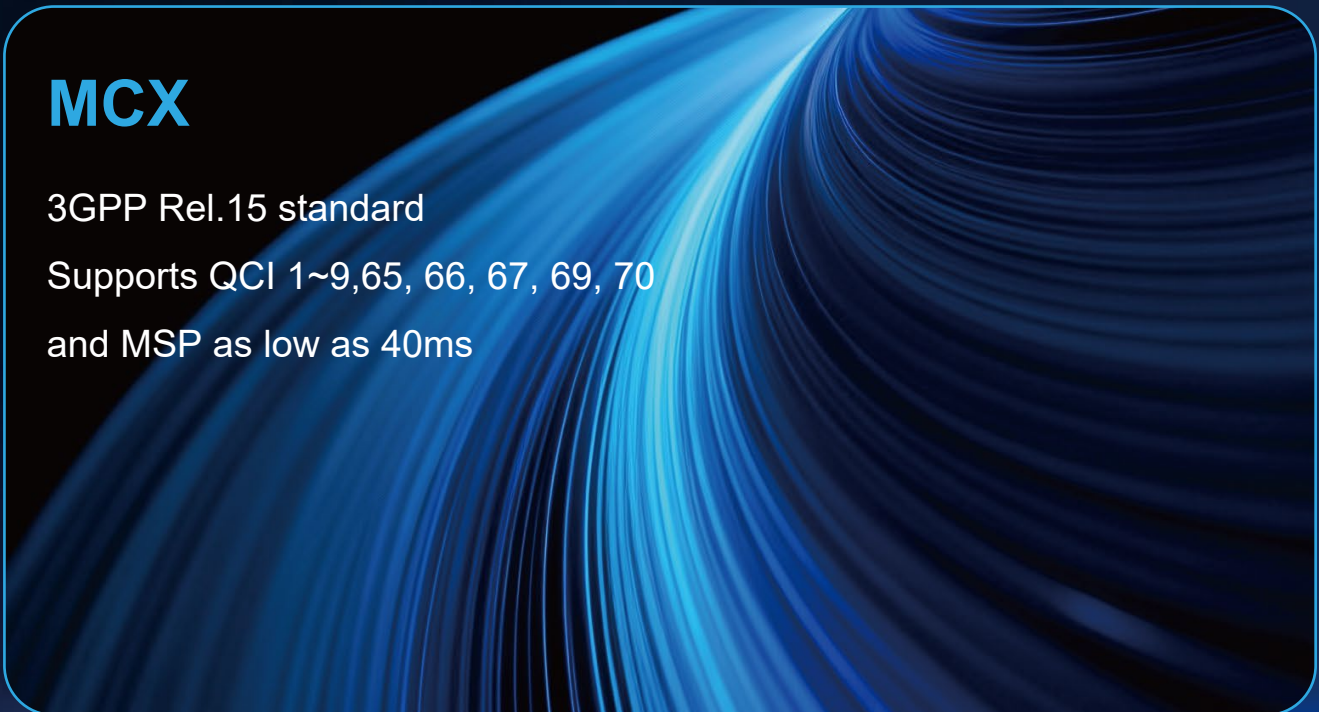
## Precise Positioning

Built-in GPS,  
BDS, GLONASS,  
Galileo, hybrid  
positioning  
modes



## MCX

3GPP Rel.15 standard  
Supports QCI 1~9, 65, 66, 67, 69, 70  
and MSP as low as 40ms



# Data Security & Personal Safety



## Application Scenarios



# Technical Specifications

General	
Frequency	DMR/Analog: 400-470MHz 5G NR: N1/2/3/5/7/8/12/14/20/25/28/30/38/40/41/48/66/77/78/79/71 LTE FDD: B1/2/3/4/5/7/8/12 with MFBI/13/B14/17/20/25/26/28(full)/29/30/66/68 LTE TDD: B34/38/39/40/41(full)/42/43/48 450MHz LTE: B31/B72 WCDMA: B1/2/4/5/8 GSM: 850/900/1800/1900
Dimensions (H x W x D)	157.4x64.8x28mm
Weight	400g(with battery & antenna)
Battery	7600mAh Li-ion
CPU	Qualcomm QCM6490
Memory	RAN 8GB + ROM 128GB
Cameras	Front 8M, Rear 64M+8M
Vocoder	AMBE++; NVOC
Speaker	3W
Operating Voltage	3.6V
Card Slot	Nano-SIM Card * 2; eSIM*1 (Reserved), TF Card * 2
Wi-Fi	2.4G & 5G; Wi-Fi 6
Bluetooth	5.2
Positioning	GPS, BDS, GLONASS, Galileo
NFC	Support
Sensor	Fingerprint Recognition Reader, Gravity Accelerometer, Gyroscope, Magnetometer, Proximity Sensor, Ambient Light Sensor
OS	Android 16

Receiver/Transmitter	
Frequency Stability	±0.5ppm
Channel Spacing	12.5kHz/20kHz/25kHz
Power	1W/4W

Environment	
Operating Temperature	-20°C~+60°C
Storage Temperature	-40°C~+85°C
Ingress Protection	IP68
Drop-proof	1.5m

## Accessories

