

P500M9-DMR

5" Multi-mode PoC Radios



CE

FC

KEY FEATURES

- 5" 1280 x 720 Resolution
- CortexA73 + CortexA53 (Octacore up to 2.0 GHz)
- IP65 waterproof and dustproof
- Support DMR and optional VHF / UHF Radio
- Optional NFC function
- Optimized Mechanism Design for handheld

INTRODUCTION

Winmate P500 Rugged Handheld Computer Series is designed for durability, performance, and versatility in demanding environments. Featuring a 5" HD display, IP65-rated protection, and an Android OS, it delivers powerful performance and seamless multitasking. Optional features like a 1D/2D barcode reader, NFC functionality, and multi-mode PoC radios with VHF/UHF support enhance its adaptability for data collection, communication, and industrial applications. Its optimized ergonomic design ensures comfortable handheld use for extended periods.

SPECIFICATIONS

Display

Resolution	1280x720	Size	5.0 inches
Contrast Ratio	800:1	Panel Brightness	500 nits
View Angles	80,80,80,80	Type	Projected Capacitive Multi Touch
Touch Mode	Support Hand / Gloves and Rain Mode	Bonding	Optical Bonding for Sunlight Viewability

System Specification

Processor	ARM A73 x 4 (2.0 GHz) + A53 x 4 (2.0 GHz)	Memory	4GB
Storage	64GB	Operating System	Android 11.0
WLAN	Support	BT	Support
WWAN	4G/LTE (Optional)	GNSS	GPS/AGPS
RFID	NFC (Read / Write, Peer to Peer mode) (Optional)	Sensors	Ambient Light Sensor, E-Compass, Gyro, Acceleration Sensors

Camera

Front Camera	8MP Camera	Rear Camera	13MP Camera with LED Auxiliary Light (Auto Focus)
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Mechanical

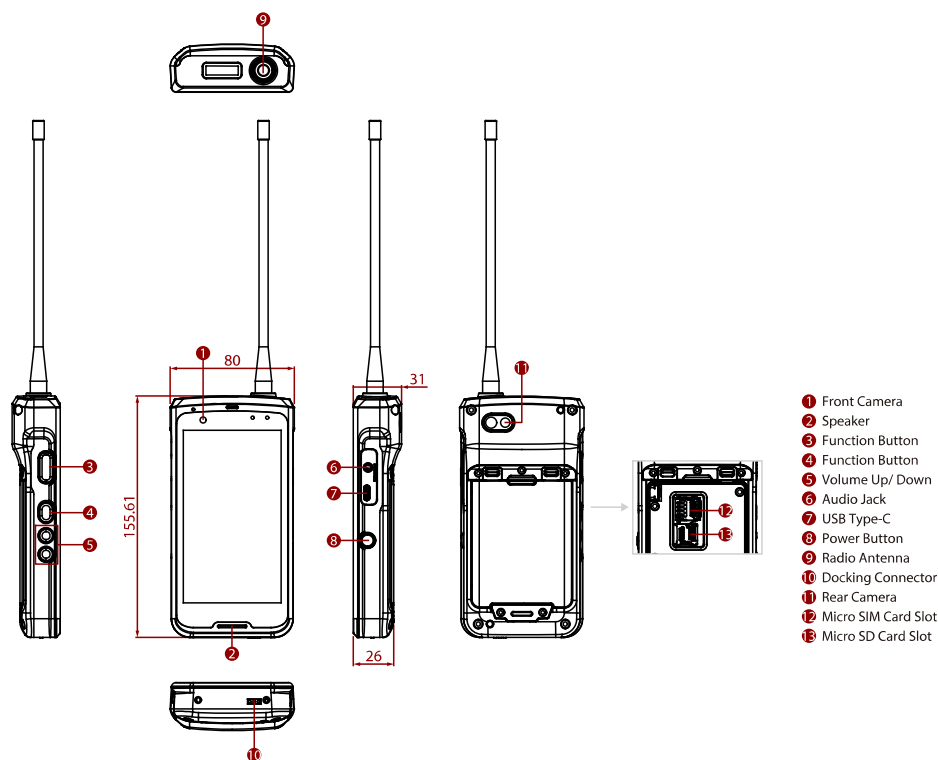
Dimension	155.61 x 80 x 26 mm	Weight	350g
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IO Ports

USB Port	1 x USB Type C OTG (support PD 2.0 charging)	SD Card Slot	1 x Micro SD Card Slot
SIM Card Slot	1 x Micro SIM Card Slot	Audio	1x Audio Jack 2 x Builtin Mic 1 x Speaker 1 x Receiver

Indicator	1 x LED Indicators (Power, Battery)	Docking Connector	1 x Docking Connector
Environment			
Operating Humidity	5% to 95% RH, Non-Condensing	Operating Temperature	-20°C to 60°C
Storage Temperature	-30°C to 70°C	Shock	MIL-STD-810H Method 516.8 Procedure I
Vibration	MIL-STD-810H Method 514.8 Procedure I	IP rating	IP65
Drop	MIL-STD-810H Method 516.8, 4 ft		
Certification			
Certification	CE, FCC		
Control			
Button	1 x Volume +/-, 1 x Power Button, 2 x Function Button		
Power			
Battery	7.6V 2700mAh	Battery Operating Time	8Hr
Power Rating	15V	Adapter	15V PD Adapter with USB TypeC
Security Function			
SOTI MobiControl	SOTI MobiControl Compliance		
Accessory			
Accessory	UHF/VHF Antenna Universal Adapter Battery	Optional Accessory	USB Type-C Cable Micro SD Card Charging Dock 2 bay Charging Dock 6 bay
Radio Transceiver			
Channel Spacing	DMR: 12.5kHz, Analog: 12.5/25kHz	TX Power	4W/0.5W
RX Sensitivity	≤-121dBm	Digital Vocoder Type	AMBE
Frequency Range	VHF: 136~174MHz or UHF: 400~480 MHz		

DIMENSIONS UNIT:MM



NOTE

- 1.This is a simplified drawing and some components are not marked in detail.
- 2.Please contact our sales representative if you need further product information.
- 3.All specifications are subject to change without prior notice.
- 4.The product shown in this datasheet is a standard model.For diagrams that contain customized or optional I/ O, please contact the Winmate Sales Team for more information.