E500RM9

5" ARM A73 + A53 Rugged Handheld Computer

KEY FEATURES

- 5" 1280 x 720 Resolution
- ARM A73 x 4 (2.0 GHz) + A53 x 4 (2.0 GHz)
- IP65 waterproof and dustproof
- Optional 1D/2D Barcode Reader and Fingerprint Reader for data collection
- Rated for extreme temperature use
- Optional NFC function

INTRODUCTION

Winmate E500 Rugged Handheld Computer Series combines powerful performance, durability, and versatility for mobile workers in demanding environments. With a compact 5" display featuring 1280 x 720 resolution and options for ARM or Qualcomm® Snapdragon™ processors, the E500 series delivers stable and efficient performance. Rated IP65/IP67 for water and dust resistance and designed for extreme temperature operation, it ensures reliability in harsh conditions. Optional features such as 1D/2D barcode scanning, fingerprint and NFC readers, and dual cameras (13 MP rear, 8 MP front) enhance data capture capabilities. Equipped with wireless connectivity, extended battery life, and a rugged design, the E500 series is ideal for real-time communication, monitoring, and data collection in industrial and field applications.

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) (Optional)	Sensors	Ambient Light Sensor, E-Compass, Gyro, Acceleration Sensors
Smart Card Reader	ISO7816 Part 1.2.3 Smart Card Reader (Optional)	Fingerprint Scanner	Fingerprint Reader (Optional)

Camera

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

Mechanical

Dimension	85.9 x 163.2 x 22.5 mm	Weight	315g

IO Ports

USB Port	1 x Micro USB OTG	**SD Card Slot**	1 x Micro SD Card Slot
SIM Card Slot	2 x SIM Card Slot	**Audio**	1 x Audio Combo connector (Mic in or Line Out) 2 x Built-in Mic 1 x Speaker 1 x Receiver
Indicator	1 x LED Indicators (Power, Battery)	**Docking Connector**	1 x Docking Connector

Environment

Operating Humidity	10% to 95% RH, NonCondensing	**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, 3 x Function Button, 1 x Home, 1 x Menu, 1 x Esc

Power

Battery	3.7V 3900mAh Hotswappable Function (Optional)	**Battery Operating Time**	20Hr
Power Rating	5V	**Adapter**	5V 2A Adapter

Security Function

SOTI MobiControl	SOTI MobiControl Compliance

Accessory

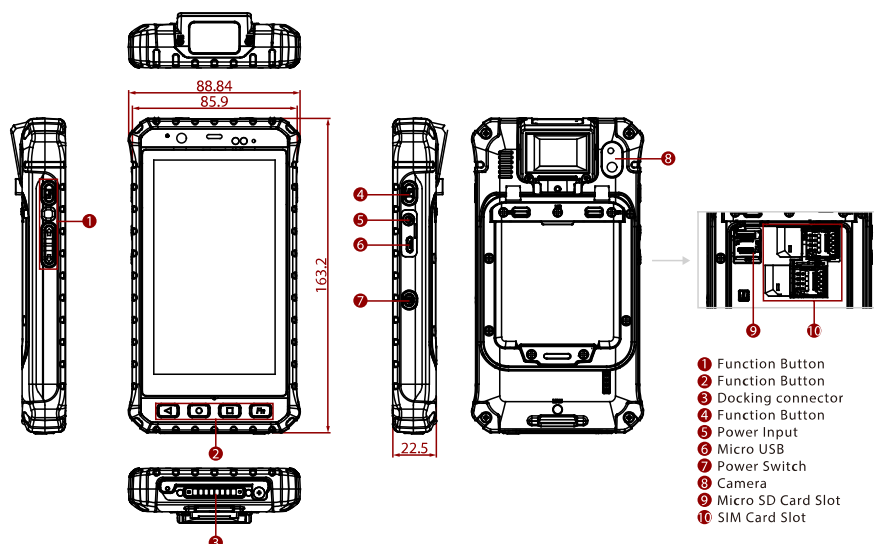|			
Accessory	Power Plug (Based on Customer's Country) Hand Strap Battery	**Optional Accessory**	Micro SD Card Charging Dock 2 bay Charging Dock 6 bay Battery Charging Dock 2 bay Battery Charging Dock 6 bay Micro USB Cable

Barcode Scanner

Barcode Scanner	1D/2D Barcode Reader (Optional)

DIMENSIONS UNIT:MM

88.84
85.9
163.2
22.5

1 Function Button
2 Function Button
3 Docking connector
4 Function Button
5 Power Input
6 Micro USB
7 Power Switch
8 Camera
9 Micro SD Card Slot
10 SIM Card Slot

NOTE

1. Total usable memory will be less dependent upon actual system configuration.
2. Computrace theft protection is available upon request.
3. Length measurements do not include protrusions. Weight varies with options and a digitizer pen.
4. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
5. Accessories and integrated options may vary depending on your configuration.
6. This is a simplified drawing, and some components are not marked in detail.
7. 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.