E500QK

5" Qualcomm® Snapdragon™ 660 Android 9.0 Rugged Handheld Computer

CE
FC
IP67
COMPLIANT MIL-STD 810G

KEY FEATURES

- Qualcomm® Snapdragon™ 660 (Octa-core 2.2 GHz), Android 9.0 Rugged Handheld Computer
- 5" 1280 x 720 Panel with direct optical bonding
- IP67 waterproof and dustproof
- 8MP Front Camera / 13MP Rear Camera
- With 19 keypad include power key

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	Qualcomm® Snapdragon™ 660 (Octa-Core 2.2 GHz)	Memory	3GB
Storage	32GB	Operating System	Android 9.0
WLAN	Support	BT	Support
WWAN	4G/LTE (Optional)	GNSS	GPS/GLONASS
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)

Mechanical

Dimension	192 x 92 x 29.25 mm	Weight	370g

IO Ports

USB Port	1 x USB 3.0 Type C OTG (support charging)	SD Card Slot	1 x Internal non-accessible Micro SD Card Slot

Audio	1 x Built-in Mic 1 x Speaker	Indicator	1 x LED Indicator
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	IP67
Drop	MIL-STD-810H Method 516.8, 5 ft		

Certification

Certification	CE, FCC

Control

Button	On-screen QWERTY Keyboard 1 x 19 Physical Keypad Include Power Key 1 x Volume +/-, 2 x Function Button

Power

Battery	3.7V 3900mAh Nonremovable Battery	Battery Operating Time	20Hr
Power Rating	5V	Adapter	5V 1A Adapter with USB TypeC

Security Function

SOTI MobiControl	SOTI MobiControl Compliance

Accessory

Accessory	Universal Adapter USB Type-C Cable	Optional Accessory	Micro SD Card Desk Dock

DIMENSIONS   UNIT:MM

1. Function Button
2. USB Type-C
3. Front Camera
4. Power Button
5. Docking Connector
6. Function Button
7. Volume Up/Down
8. Micro SIM card slot
9. Strap Clip
10. Rear Camera
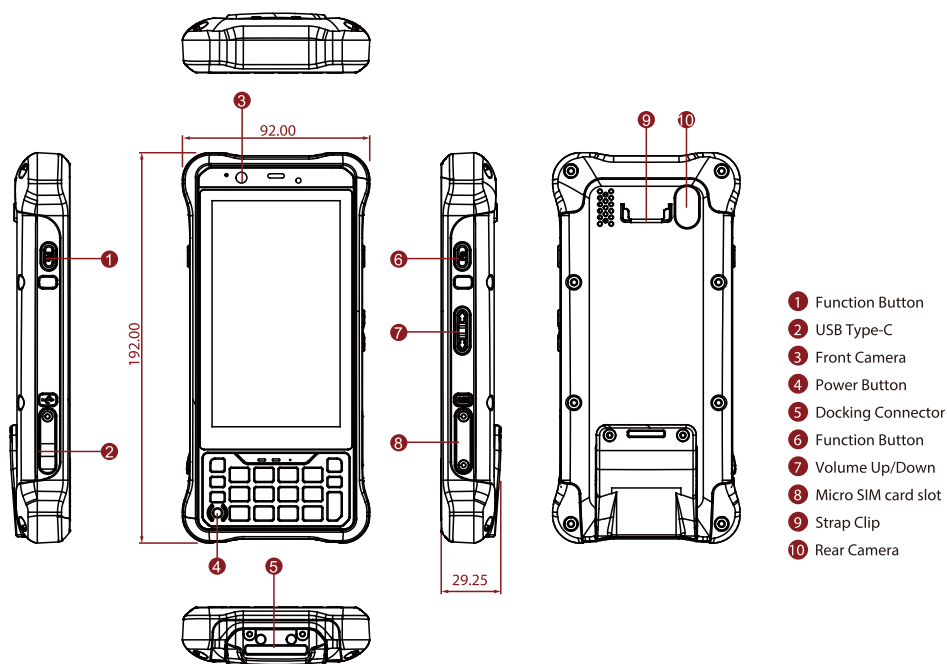
NOTE

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.

WINMATE
No. 18, Zhongxing S. St., Sanchong Dist., New Taipei City 241017 , Taiwan (R.O.C.)
Tel: +886-2-8511-0288
Website: www.winmate.com

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