

# RUGGED MOBILE COMPUTER

Rugged Mobile Computer Overview	17
<b>4.3" Rugged Mobile Computers</b> Arm Rugged Mobile Computer	19

# **Rugged Mobile Computer**

### **Overview**

Winmate's rugged mobile solutions are built to withstand rigors of the harshest environments and designed to improve efficiency and productivity of field workers. Durable mobile computers provide workers with access to information anytime no matter where the task brings them. Wireless connectivity, data collection and data transfer allow you to keep in touch with the operators all day long.

### Our rugged mobile computers include:

- The latest Android<sup>™</sup> or Windows<sup>®</sup> operating system
- Advanced data collection options
- Durable design

Winmate's rugged mobile computers are built to last, reducing total cost of ownership over time. Retailers, manufacturers, logistics companies and field service organizations all choose Winmate mobile computers to improve daily operations.

> Mobile computing to improve efficiency and productivity of field workers

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### Technology

Winmate's Rugged Mobile Computers are pocket-sized mobile devices packing powerful mobile computing performance, convenient connectivity and data capture capabilities, which are essential for enhancing service level for a variety of vertical applications within the retail, hospitality and field service sectors.



**Barcode Scanner** – Winmate's Rugged Mobile computers are 1D/2D Barcode Scanner configurable to serve as multi-use devices that support a wide variety of field workers while maintaining constant communication with co-workers and the central server.



• Smart Card Reader – Handheld device equipped with Smart Card Reader is a compact, ergonomic, and rugged solution for a wide range of applications where information security is a priority – medical identification, e-government and e-commerce applications. The device securely inputs the sensitive data from ID card to the system and guarantees the safety and confidentiality of information.



• **Fingerprint Scanner** – In the areas where the work content varies by confidentiality degree, the importance of information security arise. Fingerprints taken using the handheld device provide access for the information only to authorized personnel, significantly improving information management system on the field.

### **Product Guide - Rugged Mobile Computer**

Our product guide helps you to navigate and find the right product from our excessive product line.



# 4.3" Arm Rugged Mobile Computer **E430 Series**

### **Custom configuration**

RFID

HF RFID

Reader





Barcode Reader

Additional Storage





### **Application**



### **High Voltage Power Line Inspection**

"LIGHTWEIGHT, MOBILE SOLUTION WITH HIGH ACCURACY GPS."

Winmate 4.3" rugged handheld with customization in RFID reader, high accuracy GPS, and software is able to read the tags located at the base of the transmission towers.

### " **RUGGED & COMPACT.** IDEAL FOR FIELD WORK. ,,

- 4.3" 800 x 480 PCAP touchscreen
- TI Cortex<sup>™</sup>-A8 OMAP DM3730
- Windows CE 6.0 (E430RT-C)
- Windows WEH 6.5 (E430RT-M)

### 2MP webcam front camera

5MP rear camera

Wi-Fi, Bluetooth, GPS

260g lightweight portability

USB OTG

3.7V 3900mAh Li-Poly removable battery

IP65 waterproof and dustproof

MIL-STD-810G shock, vibration and drop resistance

Operating temperature -10°C to 50°C

### **Accessories**

Standard			
Universal USB Adapter	Micro USB Cable	Micro SD Card 16GB	Hand Strap
Optional			
Charging Dock	Battery Charging Dock	Vehicle Charging Dock	Battery
Lanyard	Micro USB Host Cable (OTG Cable)	UHF RFID Reader	Mobile Printer

# RUGGED MOBILE COMPUTER

## 4.3" Arm Rugged Mobile Computer

TI Cortex<sup>™</sup>-A8 OMAP DM3730





Model Name	4.3″	4.3″
	E430RT-C	E430RT-M
Display		
Resolution	800 x 480	800 x 480
Panel Brightness	400 nits	400 nits
Contrast Ratio	800:1 (Typ.)	800:1 (Typ.)
Touch	PCAP touchscreen	PCAP touchscreen
System		
Processor	TI Cortex™-A8 OMAP DM3730 (1 GHz)	TI Cortex <sup>™</sup> -A8 OMAP DM3730 (1 GHz)
Memory	512 MB SDRAM	512 MB SDRAM
Storage	512 MB NAND flash, Micro SD Card (Up to 32GB)	512 MB NAND flash, Micro SD Card (Up to 32GB)
OS	Windows CE 6.0	Windows WEH 6.5
Wireless Communications		
WLAN	802.11 b/g/n	802.11 b/g/n
Bluetooth	Bluetooth (V2.1 + EDR)	Bluetooth (V2.1 + EDR)
GPS	Built-in u-Blox GPS	Built-in u-Blox GPS
Connectors		
Connectors	Micro SIM Card Slot, Micro SD Card Slot, USB OTG, Pogo Pin	Micro SIM Card Slot, Micro SD Card Slot, USBOTG, Pogo Pin
Audio		
Audio	Mic, Earphone,1.2W Speaker	Mic, Earphone,1.2W Speaker
User Controls		
Buttons	Volume - +, Power, Function Home, Menu, ESC, Search	Volume - +, Power, Function Home, Menu, ESC, Search
LED Indicators	1 x LED Indicator	1 x LED Indicator
Sensors	Light, Proximity, G-sensor, Digital Compass	Light, Proximity, G-sensor, Digital Compass
Mechanical		
Dimensions	132.57 x 81.87 x 27.4 mm	132.57 x 81.87 x 27.4 mm
Net Weight	260g	260g
Environment		
Operating Temp.	-10°C to 50°C	-10°C to 50°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
IP Rating	IP65	IP65
Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 4 ft, Free to concrete	MIL-STD-810G Method 516.6, 4 ft, Free to concrete
Power Considerations		
Adapter	5V/1A, USB	5V/1A, USB
Battery	3.7V 3900mAh Li-Poly	3.7V 3900mAh Li-Poly
Battery Operating Time	20 Hr	20 Hr
Data Capture		
Camera	Rear: 5MP, Front: 2MP	Rear: 5MP, Front: 2MP
Barcode	Motorola SE4500 (Optional)	Motorola SE4500 (Optional)
RFID	HF RFID Reader (Optional)	HF RFID Reader (Optional)
NFC	-	-
Certifications		
Safety	CE, FCC, CCC, UL	CE, FCC, CCC, UL

4.3"

# 4.3" Arm Rugged Mobile Computer **E430 Series**

### **Custom configuration**

RFID

HF RFID

Reader



Barcode Reader

Additional

Storage



### **Application**



### **High Voltage Power Line Inspection**

"LIGHTWEIGHT, MOBILE SOLUTION WITH HIGH ACCURACY GPS."

Winmate 4.3" rugged handheld with customization in RFID reader, high accuracy GPS, and software is able to read the tags located at the base of the transmission towers.

### 46 **RUGGED & COMPACT.** IDEAL FOR FIELD WORK. ,,

- 4.3" 800 x 480 PCAP touchscreen
- Arm Cortex-A53
- Android 7.0

2MP webcam front camera

8MP rear camera

WWAN, Wi-Fi, Bluetooth, GPS

260g lightweight portability

USB OTG

3.7V 3900mAh Li-Poly removable battery

IP65 waterproof and dustproof

MIL-STD-810G shock, vibration and drop resistance

Operating temperature -10°C to 50°C

### **Accessories** . .

Standard				
Universal USB Adapter	Micro USB Cable	Micro SD Card 16GB	Hand Strap	
Optional				
Charging Dock	Battery Charging Dock	Vehicle Charging Dock	Battery	
Lanvard	Micro USB Host Cable (OTG Cable)	UHF RFID Reader		

## 4.3" Arm Rugged Mobile Computer

Arm Cortex-A53



Model Name	4.3″	
	E430RM4L	
Display		
Resolution	800 x 480	
Panel Brightness	400 nits	
Contrast Ratio	800:1 (Typ.)	
Touch	PCAP touchscreen	
System		
Processor	Arm Cortex-A53 (Quad-core 1.3 GHz)	
Memory	2GB SDRAM	
Storage	16GB eMMC (Up to 32GB), Micro SD Card (Up to 32GB)	
OS	Android 7.0	
Wireless Communications		
WLAN	802.11 a/b/g/n	
Bluetooth	Bluetooth 4.0	
WWAN	Optional 4G LTE	
GPS	Built-in GPS	
Connectors		
Connectors	Micro SIM Card Slot, Micro SD Card Slot, USB OTG, Pogo Pin	
Audio		
Audio	Mic, Earphone, 1.2W Speaker	
User Controls		
Buttons	Volume - +, Power, Function Home, Menu, ESC, Search	
LED Indicators	1 x LED Indicator	
Sensors	Light, Proximity, G-sensor, Digital Compass	
Mechanical		
Dimensions	132.57 x 81.87 x 27.4 mm	
Net Weight	260g	
Environment		
Operating Temp.	-10°C to 50°C	
Humidity	10% to 95% (Non-condensing, RH)	
IP Rating	IP65	
Shock	MIL-STD-810G Method 516.6 Procedure I	
Vibration	MIL-STD-810G Method 514.6 Procedure I	
Drop	MIL-STD-810G Method 516.6, 4 ft, Free to concrete	
Power Considerations		
Adapter	5V/1A, USB	
Battery	3.7V 3900mAh Li-Poly	
Battery Operating Time	20 Hr	
Data Capture		
Camera	Rear: 8MP camera with LED auxiliary light auto focus Front: 2MP camera (Either one with Barcode Reader)	
Barcode	Motorola SE4500 (Optional)	
RFID	HF RFID Reader (Optional)	
NFC	Read / Write, Peer to Peer	
Certifications		
Safety	CE, FCC, CCC	

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22

# 5" Arm Rugged Mobile Computer E500 Series

### **Custom configuration**





Barcode Reader

Smart Card Reader





Battery Hotswap



### Application



### **Public Safety**

### "SPEED UP REAL TIME DATA EXCHANGE AND IDENTIFICATION."

The E500RM8 combines barcode, fingerprint and smart card readers for various data collection options on the field. Customized logo and customized software settings ensure flexibility for deployment in police applications.

# for data collection. ,,

- 5" 1280 x 720 PCAP touchscreen
- Arm Cortex-A53 (E500RM8)
- Qualcomm<sup>®</sup> Snapdragon™ 660 (E500QK)
- Android 7.0 (E500RM8)
- Android 9.0 (E500QK)

2MP front camera; 8MP rear camera with autofocus and LED flash (E500RM8)

 $8 \mbox{MP}$  front camera;  $13 \mbox{MP}$  rear camera with autofocus and LED flash (E500QK)

Wi-Fi, Bluetooth, GPS

3.7V 3900mAh Li-ion removable battery

IP65 waterproof and dustproof (E500RM8)

IP67 waterproof and dustproof (E500QK)

MIL-STD-810G shock, vibration and drop resistance

### Accessories

 Standard

 Power Plug
 Micro USB Cable
 Micro SD Card
 Hand Strap

 Optional

 Charging Dock
 Battery Charging Dock
 Battery

# RUGGED MOBILE COMPUTER

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### **5" Arm Rugged Mobile Computer**

Arm Cortex-A53 Qualcomm<sup>®</sup> Snapdragon™ 660





Model Name	5	ອ	
Model Name	E500RM8	E500QK	
Display			
Resolution	1280 x 720	1280 x 720	
Panel Brightness	500 nits	500 nits	
Contrast Ratio	800:1 (Typ.)	800:1 (Typ.)	
Sensors	Light Sensor, Proximity Sensor, G-sensor, E-compass	Light Sensor, G-sensor, E-compass	
Touch	PCAP touchscreen	PCAP touchscreen	
System			
Processor	Arm Cortex-A53 (Octa-core 1.3 GHz)	Qualcomm <sup>®</sup> Snapdragon™ 660 (Octa-core up to 2.2 GHz)	
Memory	2GB SDRAM	3GB RAM	
Storage	16GB eMMC	32GB eMMC	
OS	Android 7.0	Android 9.0	
Wireless Communications			
WLAN	802.11 a/b/g/n	802.11 a/b/g/n/ac	
Bluetooth	Bluetooth 4.0	Bluetooth 5.0	
WWAN	Optional 4G LTE	Optional 4G LTE	
GPS	GPS / AGPS / GLONASS	GPS / AGPS / GLONASS	
Connectors			
Connectors	2 x Micro SIM Card Slot, 1 x Micro SD Card Slot, 1 x USB OTG, 1x Power Jack, 1 x Docking Connector	<ul> <li>1 × Micro SIM Card Slot, 1 × Micro SD Card Slot,</li> <li>1 × USB TypeC,</li> <li>1 × Docking Connector</li> </ul>	
User Controls			
Buttons	1 x Volume - +, 1 x Power button, 2 x Function button, 4 x Front Key	1 x Volume - +, 2 x Function button, 1 x 19 keypad include power key	
LED Indicator	1 x LED indicator	1 x LED indicator	
Mechanical			
Dimensions	85.9 x 163.2 x 22.5 mm	192 x 92 x 27.5 mm	
Net Weight	315 g	370 g	
Environment			
Operating Temp.	-10°C to 50°C	-20°C to 60°C	
IP Rating	IP65	IP67	
Shock	MIL-SID-810G Method 516.6 Procedure I	MIL-SID-810G Method 516.6 Procedure I	
Drop	MIL-STD-810G Method 514.6 Procedure I MIL-STD-810G Method 516.6, 4 ft,	MIL-STD-810G Method 514.6 Procedure I MIL-STD-810G Method 516.6, 4 ft,	
Permar	Free to concrete	Free to concrete	
Adapter	51/20 Adaptor		
Rotton	2 7/ 200m Ab Li ion removable battery	2.7 (2900  mAb  Li ion battery)	
Battery Operating Time	20 hrs		
Data Canture	201113	<u>.</u>	
Camera	Rear: 8MP camera with LED auxiliary light auto focus Front: 2MP camera (Either one with Barcode Reader)	Rear: 13MP Camera with LED auxilliary light (Auto focus)(Optional) Front: 8MP Camera	
Barcode	1D/2D Barcode Reader (Optional)	-	
Smart Card	ISO 7816 part 1,2,3 (Optional)	-	
Fingerprint	Fingerprint Reader (Optional)	-	
NFC	Default NFC (Read / Write, Peer to Peer mode)	-	
Certifications			
Safety	CE, FCC, CCC	CE, FCC, CCC	