M900P

8 inch Windows rugged tablet

CE

E24

FC

IP65

Azure Certified Device

COMPLIANT MIL-STD 810G

KEY FEATURES

- Intel® Pentium® N4200 Apollo Lake processor
- 8" 1280 x 800 IPS LED Panel with direct optical bonding
- Projected Capacitive (P-Cap) multitouch
- Default D-sub for vehicle gateway connection
- USB 3.0 Type A, USB 3.0 Type C connectors
- IP65 waterproof and dustproof

INTRODUCTION

Winmate M900 Rugged Tablet Series delivers compact, high-performance solutions for industrial and field applications. Featuring an 8" sunlight-readable IPS display with direct optical bonding and PCAP multitouch, these tablets ensure clear visibility and responsive interaction in any environment. Built with IP65-rated waterproof and dustproof protection, USB Type A and C connectors, and optional smart card and barcode readers, the M900 Series is designed for durability and versatility. Ideal for vehicle gateway connections, industrial automation, and fieldwork tasks.

SPECIFICATIONS

Display

Type	Projected Capacitive Multi Touch	Bonding	Optical Bonding for Sunlight Viewability
Resolution	1280x800	Size	8.0 inches
Contrast Ratio	1500:1	Panel Brightness	800.0 nits
View Angles	80,80,80,80		

System Specification

Processor	Intel Pentium N4200 1.1GHz (up to 2.5GHz)	Memory	4GB LPDDR4 8GB LPDDR4 (Optional)
Storage	128GB SSD Additional storage available with micro SDXC card slot 256GB SSD (Optional) 512GB SSD (Optional)	Security	Trusted Platform Module (TPM) 2.0
Operating System	Windows 10 IoT Enterprise (64 bit)	WLAN	Support
BT	Support	WWAN	4G LTE (Optional)
GNSS	GPS, GLONASS	RFID	Mutually Exclusive with Barcode Reader HF RFID Reader 13.56 MHz (Optional) LF RFID Reader 125 KHz (Optional)
Sensors	Light sensor/ G-sensor / Gyro	Smart Card Reader	Smart Card Reader Comply with ISO7816-1.2.3 T=1 and T=Ø protocol (Optional)

Camera

Front Camera	2MP Front Camera	Rear Camera	8MP Rear Camera with Autofocus and LED Light

Revised:V.231215.250507

Mechanical

Dimension	225 x 148 x 20.5 mm (10 x 7.76 x 0.8 inches)	Weight	0.9 kg with battery
Cooling System	Fanless design		

IO Ports

USB Port	1 x USB 3.0 (Type A), 1 x USB 3.0 (Type C)	SD Card Slot	1 x Micro SDXC Slot
SIM Card Slot	1 x Micro SIM card slot	Audio	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation Dual Speaker
Expansion Port	1 x 15-pin D-sub connector for Power Input, USB 2.0,Audio Out, and Tx/Rx	Indicator	4x LED Indicator for Power, Battery, HDD, RF status
Docking Connector	1 x 19-pin docking connector		

Environment

Operating Humidity	10% to 90% RH, non-condensing	Operating Temperature	-20°C to 60°C
Storage Temperature	-30°C to 70°C (-22°F to 158°F)	Shock	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	IP rating	IP65
Drop	MIL-STD-810G Method 516.6, 5 ft		

Certification

Certification	CE, FCC, E-Mark

Security Function

SOTI MobiControl	SOTI MobiControl Compliance

Control

Button	1 x Power,1 x menu, 3 x Programmable Function Keys

Power

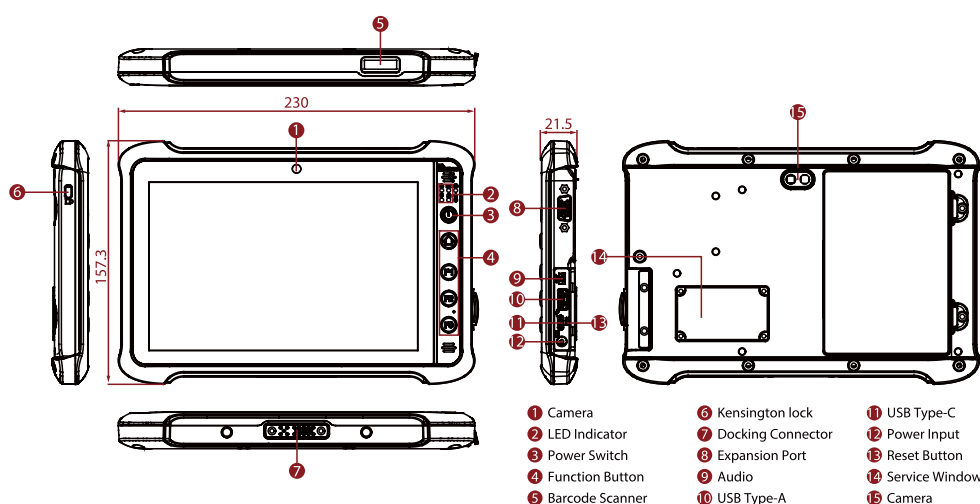| Battery	7.6V, typ. 4200 mAh Li Polymer Battery (2S2P)	Battery Operating Time	8 Hours
Power Rating	19V DC	Adapter	100-240V, 50-60Hz / 19V DC

Accessory

Accessory	Adapter and Power Cord Standard Battery Pack	Optional Accessory	Desk Dock (Optional) Vehicle Dock (Optional) Vehicle Gateway (Optional) Vehicle Cradle (Optional) Battery Charger (Optional) Vehicle Charger (Optional) Hand Strap (Optional) Capacitive Stylus (Optional)

Barcode Scanner

Barcode Scanner	1D/2D barcode reader (Optional)

DIMENSIONS UNIT:MM

230
157.3
21.5

1 Camera
2 LED Indicator
3 Power Switch
4 Function Button
5 Barcode Scanner
6 Kensington lock
7 Docking Connector
8 Expansion Port
9 Audio
10 USB Type-A
11 USB Type-C
12 Power Input
13 Reset Button
14 Service Window
15 Camera

NOTE

1. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
2. Total usable memory will be less dependent upon actual system configuration.
3. The USB Type-C connector follows USB 3.0 standard, which does not support Alternate Mode (ALT) or USB Power Delivery (USB-PD).
4. Barcode Reader and RFID Scanner are mutually exclusive options.
5. Length measurements do not include protrusions. Weight varies with options.
6. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
7. Accessories and Integrated Options may vary depending on your configuration.
8. This is a simplified drawing and some components are not marked in detail.
9. 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.