

M900P, 8-inch Rugged Tablet

Rugged Tablet that Can Survive Any Environment and Get Real Work Done

M900P is a compact rugged tablet with robust set of features designed to withstand industrial use while providing high tech solutions that increase productivity, improve safety, and reduce operational costs. The processing power comes from Intel's Apollo Lake processor paired with genuine Intel graphics for high performance. The tablet features a brilliant projective capacitive touch screen, which is outdoor viewable and offers 1280 x 800 pixel resolution. Weighing at just 2.2 pounds (approx. 900 grams) the M900P delivers lightweight mobility in a rugged tablet.



Highlights

- Intel® Pentium N4200 Apollo Lake processor
- 8" daylight readable panel with direct optical bonding
- Default D-sub for vehicle gateway connection
- IP65 waterproof and dustproof
- Optional Barcode Scanner or RFID Reader



*Please consult your reseller or Winmate representative before purchasing.

*Accessories and Integrated Options may vary depending on your configuration. Visit Winmate website for more accessories and details.





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Display Specification

SizeB-inchResolution1280x800Brightness510 ht 1TouchMulti touch projected capacitiveB00:18565/85/85Technology• Anti-reflective and anti-glare technology (Optional)• Antibent light sensor, e-compass, gyro, acceleration sensors• Automatic screen rotation• Intel HD Graphics (built-in CPU) video controller System Specification ProcessorIntel* Pentium N4200 Processor 1.10 GHz, up to2.50 GHz with turbo boost technologySystem Memory4 GB LPDDH4Storage64 GB solid state drive (SSD), optional up to 512GB additional storage with microSDXC card slotOperating SystemWindows 10 lof EnterprisedWLAN802.11 a/b/gin/acBluetoothBluetooth 5.0GNSSGFS, GLONASSWWANOptional 4G LTEDocking Connector1 x 19-pin docking connector (Inci in or Line Out)Power Input1 x DSB.0 (Type-A) 1 x USB.20 (Type-C) 2Audio Connector1 x Audio Comb connector (Mic in or Line Out)Power Input1 x DSB.0 SlotExpansion Port1 x 15-pin D-sub connector for Power Input, USB 2.0, Audio Out, and Tx/ RxEdetoors9 Suttons: 1 x Power, 1 x Home, 3 x function key (Programmable function key (Programmable function key (Programmable function key (Programmable function key (Programmable function key Coptional) 4Etzpansion Port1 x Micro SD SlotExpansion Port2 x 1 Watt speakerCancera2 x 1 Watt speakerTouch10-poin		
ProcessorIntel® Pentium N4200 Processor 1.10 GHz, up toup to2.50 GHz with turbo boost technologySystem Memory4 GB LPDDR4*Storage64 GB solid state drive (SSD), optional up to 512GB additional storage with microSDXC card slotOperating SystemWindows 10 IoT Enterprise (64 bit)Wireless CommunicationsWuANVUAN802.11 a/b/g/n/acBluetoothBluetooth 5.0GNSSGPS, GLONASSWWANOptional 4G LTEDocking Connector1 x 19-pin docking connector (Mic in or Line Out)USB1 x USB3.0 (Type-A), 1 x USB3.0 (Type-C) *Audio Connector1 x Audio Combo connector (Mic in or Line Out)Power Input1 x Power JackMicro SD1 x Micro SD SlotExpansion Port1 x 15-pin D-sub connector for Power Input, USB 2.0, Audio Out, and Tx/ RxKeyboard and InputS 4 function key configured by Hottab Utility)LED IndicatorsPower, Battery, HDD, RFTouch10-point multi touchAudioMire SD MarkEarcanera8MP Rear Camera with Autofocus and LED LightData CaptureEarcaneraBarcode1D/2D Barcode Scanner (Optional) * HF RFIDHF RFIDHF RFID Reader 13.56 MHz (Optional) * LF RFIDLF RFIDFM Rear Camera 2.55 KHz (Optional) * LF RFIDSecurityTPM v2.0 Mobile Device Mgmt. SOTI Mobicontrol compatible *Standards and CertificationCertificationCErtificationCE, FCC, E-Mark	Resolution Brightness Touch Contrast Ratio Viewing Angle	1280x800 510 nit ¹ Multi touch projected capacitive 800:1 85/85/85/85 • Anti-reflective and anti-glare technology (Optional) • Ambient light sensor, e-compass, gyro, acceleration sensors • Automatic screen rotation
up to2.50 GHz with turbo boost technologySystem Memory4 GB LPDDR4 ²Storage64 GB solid state drive (SSD), optional up to 512GB additional storage with microSDXC card slotOperating SystemWindows 10 IoT Enterprise (64 bit)Wireless CommunicationsWindows 10 IoT Enterprise (64 bit)Wireless CommunicationsStorageWLAN802.11 a/b/g/n/acBluetoothBluetooth 5.0GNSSGPS, GLONASSWWANOptional 4G LTEDocking Connector1 x 19-pin docking connectorUSB1 x USB3.0 (Type-A), 1 x USB3.0 (Type-C) ³Audio Connector1 x Audio Combo connector (Mic in or Line Out)Power Input1 x Power JackMicro SD1 x Micro SD SlotExpansion Port1 x 15-pin D-sub connector for Power Input, USB 2.0, Audio Out, and Tx/ RxKeyboard and Input90wer, Battery, HDD, RFTouch10-point multi touchAudio10-point multi touchAudio2 x 1 Watt speakerCamera2 MP Webcam Rear CameraRear Camera8MP Rear Camera with Autofocus and LED LightBarcode1D/2D Barcode Scanner (Optional) 4 HF RFIDHF RFIDHF RFID Reader 13.56 MHz (Optional) 4 LF RFID Reader 13.56 MHz (Optiona	System Specific	ation
WLAN802.11 a/b/g/n/acBluetoothBluetooth 5.0GNSSGPS, GLONASSWWANOptional 4G LTEInterfaceDocking Connector1 × 19-pin docking connectorUSB1 × USB3.0 (Type-A), 1 × USB3.0 (Type-C) ³Audio Connector1 × Audio Combo connector (Mic in or Line Out)Power Input1 × Power JackMicro SD1 × Micro SD SlotExpansion Port1 × 15-pin D-sub connector for Power Input, USB 2.0, Audio Out, and Tx/ RxKeyboard and InputButtons• On-screen QWERTY Keyboard • Buttons: 1 x Power, 1 x Home, 3 × function key (Programmable function key configured by Hottab Utility)LED IndicatorsPower, Battery, HDD, RF TouchTouch10-point multi touchAudioUMicrophoneBuilt-in dual Digital Mic with Noise Cancellation SpeakerSpeaker2 x 1 Watt speakerCameraBMP Rear Camera with Autofocus and LED LightData CaptureBarcode Scanner (Optional) 4 HF RFID LF RFID Reader 13.56 MHz (Optional) 4 LF RFID LF RFID Reader 12.55 KHz (Optional) 4 LF RFID LF RFID Reader 12.55 KHz (Optional) 4 LF RFID LF RFID Reader 12.55 KHz (Optional) 4 LF RFID Security TPM v2.0 Mobile Device Mgmt. SOTI Mobicontrol compatible 4Standards and Certification CertificationCertificationCertificationCE, FCC, E-Mark	up to System Memory Storage	 2.50 GHz with turbo boost technology 4 GB LPDDR4 ² 64 GB solid state drive (SSD), optional up to 512GB additional storage with microSDXC card slot
BluetoothBluetooth 5.0GNSSGPS, GLONASSWWANOptional 4G LTEInterfaceDocking Connector1 x 19-pin docking connectorUSB1 x USB3.0 (Type-A), 1 x USB3.0 (Type-C) ³Audio Connector1 x Audio Combo connector (Mic in or Line Out)Power Input1 x Power JackMicro SD1 x Micro SD SlotExpansion Port1 x 15-pin D-sub connector for Power Input, USB 2.0, Audio Out, and Tx/ RxKeyboard and InputButtons• On-screen QWERTY Keyboard • Buttons: 1 x Power, 1 x Home, 3 x function key (Programmable function key configured by Hottab Utility)LED IndicatorsPower, Battery, HDD, RF TouchTouch10-point multi touchAudioAudioX 11 X Watt speakerCamera2MP Webcam Rear Camera 	Wireless Commu	inications
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USB1 x USB3.0 (Type-A), 1 x USB3.0 (Type-C) ³ Audio Connector1 x Audio Combo connector (Mic in or Line Out)Power Input1 x Power JackMicro SD1 x Micro SD SlotExpansion Port1 x 15-pin D-sub connector for Power Input, USB 2.0, Audio Out, and Tx/ RxKeyboard and InputButtons• On-screen QWERTY Keyboard • Buttons: 1 x Power, 1 x Home, 3 x function key (Programmable function key configured by Hottab Utility)LED IndicatorsPower, Battery, HDD, RF 10-point multi touchAudioAudioMicrophoneBuilt-in dual Digital Mic with Noise Cancellation SpeakerSpeaker2 x 1 Watt speakerCameraFront Camera 	Interface	
Buttons • On-screen QWERTY Keyboard • Buttons: 1 x Power, 1 x Home, 3 x function key (Programmable function key configured by Hottab Utility) LED Indicators Power, Battery, HDD, RF Touch 10-point multi touch Audio Microphone Built-in dual Digital Mic with Noise Cancellation Speaker 2 x 1 Watt speaker Camera Front Camera Front Camera 2MP Webcam Rear Camera 8MP Rear Camera with Autofocus and LED Light Data Capture Barcode Barcode 1D/2D Barcode Scanner (Optional) ⁴ HF RFID HF RFID Reader 13.56 MHz (Optional) ⁴ LF RFID LF RFID Reader 125 KHz (Optional) ⁴ Security Function SOTI Mobicontrol compatible ⁴ Standards and Certification CE, FCC, E-Mark	USB Audio Connector Power Input Micro SD	1 x USB3.0 (Type-A), 1 x USB3.0 (Type-C) ³ 1 x Audio Combo connector (Mic in or Line Out) 1 x Power Jack 1 x Micro SD Slot 1 x 15-pin D-sub connector for Power Input, USB 2.0,
 Buttons: 1 x Power, 1 x Home, 3 x function key (Programmable function key configured by Hottab Utility) LED Indicators Power, Battery, HDD, RF Touch 10-point multi touch Audio Audio Microphone Built-in dual Digital Mic with Noise Cancellation Speaker 2 x 1 Watt speaker Camera Front Camera 2MP Webcam Rear Camera 8MP Rear Camera with Autofocus and LED Light Data Capture Barcode 1D/2D Barcode Scanner (Optional) ⁴ HF RFID HF RFID Reader 13.56 MHz (Optional) ⁴ LF RFID LF RFID Reader 125 KHz (Optional) ⁴ Security Function: Security TPM v2.0 Mobile Device Mgmt. SOTI Mobicontrol compatible ⁴ Standards and C=tification CE, FCC, E-Mark 	Keyboard and Ir	iput
Microphone Built-in dual Digital Mic with Noise Cancellation Speaker 2 x 1 Watt speaker Camera ZMP Webcam Front Camera 2MP Webcam Rear Camera 8MP Rear Camera with Autofocus and LED Light Data Capture Barcode 1D/2D Barcode Scanner (Optional) ⁴ HF RFID HF RFID Reader 13.56 MHz (Optional) ⁴ LF RFID LF RFID Reader 125 KHz (Optional) ⁴ Security Function SOTI Mobicontrol compatible ⁴ Standards and Certification CE, FCC, E-Mark	Buttons	• Buttons: 1 x Power, 1 x Home,
Speaker 2 x 1 Watt speaker Camera Image: Standards and LED Light Front Camera 2MP Webcam Rear Camera 8MP Rear Camera with Autofocus and LED Light Data Capture Image: Display Standard Stan		function key configured by Hottab Utility) Power, Battery, HDD, RF
Front Camera 2MP Webcam Rear Camera 8MP Rear Camera with Autofocus and LED Light Data Capture Barcode 1D/2D Barcode Scanner (Optional) ⁴ HF RFID HF RFID Reader 13.56 MHz (Optional) ⁴ LF RFID LF RFID Reader 125 KHz (Optional) ⁴ Security Function Security TPM v2.0 Mobile Device Mgmt. SOTI Mobicontrol compatible ⁴ Standards and Certification CE, FCC, E-Mark	Touch	function key configured by Hottab Utility) Power, Battery, HDD, RF
Rear Camera 8MP Rear Camera with Autofocus and LED Light Data Capture Barcode 1D/2D Barcode Scanner (Optional) ⁴ HF RFID HF RFID Reader 13.56 MHz (Optional) ⁴ LF RFID LF RFID Reader 125 KHz (Optional) ⁴ Security Function TPM v2.0 Mobile Device Mgmt. SOTI Mobicontrol compatible ⁴ Standards and Certification CE, FCC, E-Mark	Touch Audio Microphone	function key configured by Hottab Utility) Power, Battery, HDD, RF 10-point multi touch Built-in dual Digital Mic with Noise Cancellation
Barcode 1D/2D Barcode Scanner (Optional) ⁴ HF RFID HF RFID Reader 13.56 MHz (Optional) ⁴ LF RFID LF RFID Reader 125 KHz (Optional) ⁴ Security Function Security TPM v2.0 Mobile Device Mgmt. SOTI Mobicontrol compatible ⁴ Standards and Certification Certification CE, FCC, E-Mark	Touch Audio Microphone Speaker	function key configured by Hottab Utility) Power, Battery, HDD, RF 10-point multi touch Built-in dual Digital Mic with Noise Cancellation
HF RFID HF RFID Reader 13.56 MHz (Optional) ⁴ LF RFID LF RFID Reader 125 KHz (Optional) ⁴ Security Function Security TPM v2.0 Mobile Device Mgmt. SOTI Mobicontrol compatible ⁴ Standards and Certification Certification CE, FCC, E-Mark	Touch Audio Microphone Speaker Camera Front Camera	function key configured by Hottab Utility) Power, Battery, HDD, RF 10-point multi touch Built-in dual Digital Mic with Noise Cancellation 2 x 1 Watt speaker 2MP Webcam
Security TPM v2.0 Mobile Device Mgmt. SOTI Mobicontrol compatible 4 Standards and Certification Certification CE, FCC, E-Mark	Touch Audio Microphone Speaker Camera Front Camera Rear Camera	function key configured by Hottab Utility) Power, Battery, HDD, RF 10-point multi touch Built-in dual Digital Mic with Noise Cancellation 2 x 1 Watt speaker 2MP Webcam
Mobile Device Mgmt. SOTI Mobicontrol compatible 4 Standards and Certification Certification CE, FCC, E-Mark	Touch Audio Audio Speaker Camera Front Camera Rear Camera Data Capture Barcode HF RFID	function key configured by Hottab Utility) Power, Battery, HDD, RF 10-point multi touch Built-in dual Digital Mic with Noise Cancellation 2 x 1 Watt speaker 2MP Webcam 8MP Rear Camera with Autofocus and LED Light 1D/2D Barcode Scanner (Optional) ⁴ HF RFID Reader 13.56 MHz (Optional) ⁴
Certification CE, FCC, E-Mark	Touch Audio Audio Microphone Speaker Camera Front Camera Rear Camera Data Capture Barcode HF RFID LF RFID LF RFID	function key configured by Hottab Utility) Power, Battery, HDD, RF 10-point multi touch Built-in dual Digital Mic with Noise Cancellation 2 x 1 Watt speaker 2MP Webcam 8MP Rear Camera with Autofocus and LED Light 1D/2D Barcode Scanner (Optional) ⁴ HF RFID Reader 13.56 MHz (Optional) ⁴ LF RFID Reader 125 KHz (Optional) ⁴
Certification CE, FCC, E-Mark	Touch Audio Audio Camera Front Camera Rear Camera Barcode HF RFID LF RFID Security Function Security	function key configured by Hottab Utility) Power, Battery, HDD, RF 10-point multi touch Built-in dual Digital Mic with Noise Cancellation 2 x 1 Watt speaker 2MP Webcam 8MP Rear Camera with Autofocus and LED Light 1D/2D Barcode Scanner (Optional) ⁴ HF RFID Reader 13.56 MHz (Optional) ⁴ LF RFID Reader 125 KHz (Optional) ⁴
	Touch Audio Audio Microphone Speaker Camera Front Camera Rear Camera Barcode HF RFID LF RFID LF RFID Security Function Security Mobile Device Mgmt	function key configured by Hottab Utility) Power, Battery, HDD, RF 10-point multi touch Built-in dual Digital Mic with Noise Cancellation 2 x 1 Watt speaker 2MP Webcam 8MP Rear Camera with Autofocus and LED Light 1D/2D Barcode Scanner (Optional) ⁴ HF RFID Reader 13.56 MHz (Optional) ⁴ LF RFID Reader 125 KHz (Optional) ⁴ Soft Mobicontrol compatible ⁴

WINMATE

Mechanical and Environment

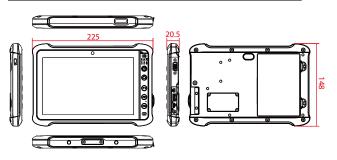
	Dimensions	225 x 148 x 20.5 mm (8.86 x 5.83 x 0.81 inches) ⁵
	Dimensions	
	Weight	0.9 kg with battery
	Operating Temperature	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)
	Storage Temperature	-30°C to 70°C (-22°F to 158°F)
	Humidity	10% to 90% RH, non-condensing
	IP Rating	IP65 certified, dustproof and waterproof
	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, 5 ft to concrete
Power Management		

Power Input	19V DC , 3.42A
Battery	7.6V, typ. 4200 mAh Li Polymer Battery (2S2P)
Battery Operating Time	8 hours 6
AC Adapter	100-240V, 50~60Hz

Accessories

Standard Accessories 922D065W19V6 Adapter and Power Cord Standard Battery Pack 98KA0000002 Vehicle Charger 9226065W19V0 **Optional Accessories** Desk Dock 98DA0000001 Vehicle Gateway 98DA0000003 Vehicle Cradle 98DA0000002 Battery Charger 98JA0000001 9B00000003J Carry Bag Hand Strap 98KA0000003 Capacitive Stylus 9B000000415

Drawing⁸





Do Not Expose the Battery Pack to Excessive Heat, or Extreme Heat (Near Caution hat or cold environments

- Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
 Total usable memory will be less depending 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).
- Barcode Reader and RFID Scanner are mutually exclusive options.
 Length measurements do not include protrusions. Weight varies with options.
- Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
 Accessories and Integrated Options may vary depending on your configuration.
- 8. This is a simplified drawing and some components are not marked in detail

Release Date: 06-May-2020 V2.0



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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