



## FEATURES

- 10.1" IPS LCD Display (1920 x 1200 Resolution)
- Sunlight Readable LCD Display (800 nits)
- Intel® Alder Lake N200 Processor
- Windows 11 Pro/IoT or Linux OS
- IP65 Water & Dust Protection
- 4ft Drop / Shock Protection (MIL-STD-810G)
- Options: NFC, RFID, Smart Card Reader, Barcode Reader, Fingerprint Reader, Capacitive Stylus

The MD-100 Medical Grade Tablet PC is engineered for healthcare environments that demand high performance and reliability. Equipped with a 10.1" high-resolution IPS touchscreen and the powerful Intel Alder Lake N200 processor, this tablet delivers exceptional computing power and mobility. Its rugged design includes IP65 water and dust protection and MIL-STD-810G shock resistance, ensuring durability in tough medical conditions. Certified for medical-grade safety, the MD-100 is perfect for critical applications such as telemedicine, patient data management, and medical carts. With flexible OEM/ODM customization options, including add-ons like NFC, RFID, barcode readers, and fingerprint sensors, the MD-100 offers tailored solutions for healthcare professionals.

## SPECIFICATIONS

### RUGGEDNESS

<b>IP Rating</b>	IP65
<b>Drop Rating</b>	MIL-STD-810G, 4ft to Concrete
<b>Shock Rating</b>	MIL-STD-810G, Method 516.6, Procedure I, 40g 11ms
<b>Vibration Rating</b>	MIL-STD-810G, Method 514.6, Procedure I, Category 4
<b>ESD Protection</b>	8kV Touch, 15kV Air

### SYSTEM

<b>Processor</b>	Intel® Alder Lake N200, Max Turbo Frequency 3.7GHz, 6MB Intel® Smart Cache
<b>GPU</b>	Intel® UHD Graphics, Max Dynamic Frequency 750MHz
<b>Memory</b>	8GB LPDDR5, <b>Optional:</b> 16GB LPDDR5
<b>Storage</b>	256GB NVMe Gen4 SSD <b>Optional:</b> 512GB, 1TB
<b>OS</b>	Windows 11 Pro & IoT <b>Optional:</b> Linux
<b>Security</b>	TPM 2.0

### DISPLAY

<b>Screen Size</b>	10.1" IPS LCD
<b>Resolution</b>	1920 x 1200
<b>Brightness</b>	800 nits Backlight, Sunlight Readable
<b>View Angle</b>	+/- 85°
<b>Contrast Ratio</b>	1500 : 1
<b>Touch Screen</b>	Capacitive 10-Point Multi-Touch High Strength Harden Glass Multi-Touch Mode (Supports Glove, Water Splash Use) <b>Optional Glass Coating:</b> Anti-Reflective, Anti-Glare, Anti-Fingerprint

### COMMUNICATIONS

<b>Ethernet</b>	1 x RJ45 10/100/1000M Port
<b>Wi-Fi</b>	Intel® Wi-Fi 6E AX210
<b>Bluetooth</b>	Bluetooth 5.2
<b>4G LTE (Optional)</b>	Accepts Most 4G/LTE Modules Using M.2 Interface
<b>GPS (Optional)</b>	Ublox NEO-M10, Supports GPS L1C/A, SBAS L1C/A, QZSS L1C/A GLONASS L1OF, BeiDou B1

### POWER

<b>AC Adapter</b>	Input AC 100-240V, Output DC 19V 3A, Standard US Plug <b>Optional:</b> Medical AC Adapter
<b>Battery</b>	Li-ion Hot-Swappable Polymer Battery: 11.1V 3600mAh 40Wh Internal Battery: 7.4V 470mAh 3.5Wh Battery

### I/O INTERFACE

<b>Sensors</b>	G-Sensor, Light Sensor
<b>Audio</b>	1 x Built-in Microphone 1 x Internal 8 ohm 1W Speaker
<b>Camera</b>	Front Camera: 2MP Rear Camera: 5MP with Auto Focus
<b>Ports</b>	1 x USB 3.0 Type A 1 x HDMI Type A 1 x Audio Jack 1 x DC Jack 1 x Docking Connector (19V DC Input, 1 x USB 3.0) 1 x Micro SIM Slot 1 x TF Card Slot, Maximum 256GB
<b>Buttons</b>	Power On/Off Button, Windows Home Button Volume +/- Button 2 x Customizable Programmable Buttons

### OPTIONAL ADD-ONS

<b>Modules</b>	NFC Module: ISO/IEC 14443 A/B, ISO 15693 RFID Module: ISO 14443 A/B, ISO 15693 Smart Card Reader Module: ISO 7816, CCID Barcode Reader Fingerprint Reader Stylus: Capacitive Stylus, Digitizer Pen
<b>Support</b>	

### MECHANICAL

<b>Chassis</b>	Plastic + Thermoplastic Polyurethane <b>Optional:</b> Anti-Microbial Medical Chassis
<b>Dimensions</b>	280.7 x 256.7 x 23.2mm
<b>Weight</b>	1.1kg

### ENVIRONMENTAL

<b>Temperature:</b>	
- <b>Operation</b>	0°C to 50°C
- <b>Storage</b>	-20°C to 60°C
<b>Humidity</b>	10% to 95% Non-condensing
<b>RoHS</b>	Compliant

### REGULATORY

<b>Certification</b>	FCC, CE, IEC62133, IATA, IEC60601-1, IEC60601-1-2
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## DIMENSIONS AND SYSTEM LAYOUT



## OPTIONAL ACCESSORIES



Docking Station



Capacitive Stylus



Digitizer Pen



Wall Dock

## MARKET AND APPLICATIONS

**Healthcare and Medical:** Medical devices, Patient Monitoring System, and Telehealth Solutions

**Public Safety and Emergency Services:** Medical Response Units, Communication Devices

**Industrial and Manufacturing:** Equipment Control System, Environmental Compliance

**Environmental and Safety Monitoring:** Field Equipment, Data Logging Devices

**Education and Research:** Research Equipment and Educational Tools