# 10.1" RUGGED MEDICAL TABLET PC | MD−100

**NoteStar★**

## 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

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

### SYSTEM

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

### DISPLAY

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

### COMMUNICATIONS

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

### POWER

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

### I/O INTERFACE

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

### OPTIONAL ADD−ONS

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

### MECHANICAL

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

### ENVIRONMENTAL

| | |
|---|---|
| Temperature: | |
| - Operation | 0°C to 50°C |
| - Storage | -20°C to 60°C |
| Humidity | 10% to 95% Non-condensing |
| RoHs | Compliant |

### REGULATORY

| | |
|---|---|
| Certification | FCC, CE, IEC62133, IATA, IEC60601-1, IEC60601-1-2 |

## DIMENSIONS AND SYSTEM LAYOUT



Barcode Scanner (Optional)
Stylus Tether Hole
Barcode Reader (Optional)
Fingerprint Reader (Optional)
MIC
Ambient Light Sensor
Front Camera 2MP
Capacitive Stylus
Rear Camera 5MP
LED
NFC/RFID Reader (Optional)
23.2mm
IO Cover Lock
Audio Jack
USB
HDMI
256.7mm
Power Indicator
Charge Indicator
P1
P2
Windows Home
Vol+
Vol-
Power
DC Jack
RJ45 Port
Battery
Micro SIM Slot
TF Card Slot
Battery Lock
Speaker
280.7mm
Docking Connector

## 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