10.1" RUGGED MEDICAL TABLET PC | MD-100

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 Optional: 512GB, 1TB
OS	Windows 11 Pro & IoT 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 High Strength Harden Glass Multi-Touch Mode (Supports Glove, Water Splash Use) Optional Glass Coating: 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 Optional: Medical AC Adapter
Battery	Li-ion Hot-Swappable Polymer Battery: 11.1V 3600mAh 40Wh Internal Battery: 7.4V 470mAh 3.5Wh Battery

I/O INTERFACE

Sensors	G-Sensor, Light Sensor
Audio	1 x Built-in Microphone 1 x Internal 8 ohm 1W Speaker
Camera	Front Camera: 2MP Rear Camera: 5MP with Auto Focus
Ports	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
Buttons	Power On/Off Button, Windows Home Button Volume+/- Button 2 x Customizable Programmable Buttons

OPTIONAL ADD-ONS

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

MECHANICAL

Chassis	Plastic + Thermoplastic Polyurethane 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

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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

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