



## FEATURES

- 10.1" IPS LCD Screen (1920 x 1200 Resolution)
- Sunlight Readable LCD Display (800 nits)
- Intel® Kaby Lake Core™ i7-7Y75 Processor
- Windows 10 Pro/Enterprise 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-100K Medical Grade Tablet PC is purpose-built for demanding healthcare environments that require both performance and durability. Featuring a 10.1" high-resolution IPS LCD screen and powered by the Intel® Kaby Lake Core™ i7-7Y75 processor, this tablet ensures fast, efficient computing for medical applications. Its rugged construction, including IP65 water and dust protection and MIL-STD-810G shock resistance, provides reliable operation in even the toughest conditions. Certified for medical-grade safety and electromagnetic compatibility, the MD-100K is ideal for applications such as telehealth, patient monitoring, and medical response units. With OEM/ODM customization options, including NFC, RFID, smart card readers, and more, it offers adaptable solutions to meet the unique needs of 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® Kaby Lake Core™ i7-7Y75 Processor, Max Turbo Frequency 3.6GHz, 4 MB Intel® Smart Cache <b>Optional:</b> Intel® Amber Lake Y Core™ i5-8200Y Processor, Max Turbo Frequency 3.9GHz, 4 MB Intel® Smart Cache
GPU	Intel® HD Graphics 615, Burst Frequency 1.05GHz
Memory	8GB LPDDR3, <b>Optional:</b> 16GB LPDDR3
Storage	256GB SSD (M.2 Interface) <b>Optional:</b> 512GB, 1TB
OS	Windows 10 Pro 64-bit <b>Optional:</b> Windows 10 Enterprise, 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 Hardened Glass Multi-Touch Mode (Supports Glove, Water Splash Use) <b>Optional</b> Glass Coating: Anti-Reflective, Anti-Glare, Anti-Fingerprint

### POWER

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

### MECHANICAL

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

### 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 USB3.0 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

### COMMUNICATIONS

Ethernet	1 x RJ45 10/100/1000M Port
Wi-Fi	Intel® Wi-Fi 6E AX210
Bluetooth	Bluetooth 5.2
4G LTE ( <b>Optional</b> )	Accepts Most 4G/LTE Modules Using M.2 Interface
GPS ( <b>Optional</b> )	Ublox NEO-M10, Support GPS L1C/A, SBAS L1C/A, QZSS L1C/A GLONASS L10F, BeiDou B1

### 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

### 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