10.1" RUGGED MEDICAL TABLET PC | MD-100K

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 Optional: 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, Optional: 16GB LPDDR3
Storage	256GB SSD (M.2 Interface) Optional: 512GB, 1TB
OS	Windows 10 Pro 64-bit Optional: 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) Optional Glass Coating: Anti-Reflective, Anti-Glare, Anti-Fingerprint

POWER

AC Adapter	Input AC 100-240V, Output DC 19V 3A, Standard US Plug Optional: 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 Optional: 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 (Optional)	Accepts Most 4G/LTE Modules Using M.2 Interface
GPS (Optional)	Ublox NEO-M10, Support GPS L1C/A, SBAS L1C/A, QZSS L1C/A GLONASS L1OF, 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

www.estonetech.com
sales@estonetech.com

U.S.-Headquarters
6834 Spring Valley Dr,
Holland, OH 43528

U.S.-West Coast
21015 Commerce Pointe Dr,
Walnut, CA 91789

Europe
Baltesakker 17-A, 5625 TC,
Eindhoven, The Netherlands

Japan
101-0021, 4F Kairaku Shinsuehiro
Bld., 6-5-12, Sotokanda, Chiyoda-Ku, Tokyo

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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

www.estonetech.com
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U.S.-Headquarters
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Holland, OH 43528

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