10.1" RUGGED MEDICAL TABLET PC | MD-100A



FEATURES

- 10.1" IPS LCD Display (1920 x 1200 Resolution)
- Dual-core ARM Cortex-A72 1.8GHz
  Quad-core ARM Cortex-A53 1.4GHz
- Android 11
- 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-100A Rugged & Medical Grade Tablet combines durability with high performance, featuring a 10.1-inch IPS LCD, optional sunlight-readable display, and a fast processor. Built for tough environments, it offers IP65 water/dust resistance, and MIL-STD-810G drop protection. Packed with advanced tools like NFC, RFID, barcode and fingerprint scanners, and capacitive stylus support, the MD-100A is perfect for fieldwork and office applications.

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	Dual-core ARM Cortex-A72 up to 1.8GHz Quad-core ARM Cortex-A53 up to 1.4GHz
GPU	ARM Mali-T860MP4
Memory	4GB DDR
Storage	64GB, Optional: 128GB
OS	Android 11

DISPLAY

Screen Size	10.1'' IPS LCD
Resolution	1920 x 1200
Brightness	350 nits
View Angle	+/- 85°
Contrast Ratio	800 : 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 AC Adapter
Battery	41.07Wh Battery, Li-on Polymer

COMMUNICATIONS

Ethernet	1 x RJ45 10/100/1000M Port
Wi-Fi	802.11 a/b/g/n/ac Dual-Band 2.4G & 5G
Bluetooth	Bluetooth v4.0
4G LTE (Optional)	M.2 Format, Carrier Certification Available LTE FDD, LTE TDD, WCDMA, HSPA+, TD-SCDMA, GSM, GPRS, GEDGE GSM/EDGE/GPRS (850/900/1800/1900)
GPS (Optional)	Ublox 8, Support GPS

I/O INTERFACE

Sensors	G-Sensor, Light Sensor
Audio	1 x Built-in Microphone 1 x Internal 8ohm 1W Speaker
Camera	Front Camera: 2MP Rear Camera: 8MP 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 Home Button Volume+/- Button 2 x 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

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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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