DT Research
www.dtresearch.com



323PA/MD
Rugged Medical Tablet

Slim, Antimicrobial, ANSI/AAMI ES60601-1 Certified Tablet for Reliable Operation

The 323PA/MD AI-capable rugged medical tablet integrates a high-brightness 13.3” touchscreen and a high-performance, energy-efficient Intel® Core™ Ultra 12-core processor delivering up to 24 TOPS (INT8) of peak AI performance within a slim, lightweight, durable casing. Featuring a built-in NPU for dedicated AI acceleration, it meets the rigorous requirements of modern healthcare data management and supports demanding applications in graphics, video, voice processing, and predictive analytics. With built-in Wi-Fi and optional front and back cameras, smart card/CAC reader, NFC/RFID reader, barcode scanner, and GNSS data capture modules, the AI-capable rugged medical tablet enables seamless information capture and transmission to improve workflows. IP65-rated and certified to MIL-STD-810H standards, with support for a wide operating temperature range, the AI-capable rugged medical tablet delivers reliable operation in harsh, mission-critical environments.





Features

- 13.3” LED-backlit, sunlight-readable 1000 nits touchscreen, digital pen support
- Intel® Core™ Ultra 5/7 processor
- Microsoft® Windows® 11 IoT Enterprise operating system
- NIST compliant BIOS available
- IP65-rated for water and dust resistance
- MIL-STD-810H for shock and vibration protection
- ANSI/AAMI ES60601-1 certified with antimicrobial enclosure
- Detachable keyboard option for 2-in-1 applications
- Built-in 13 MP back camera
- CBRS for private network service support
- Quick access SSD

Major Options

- 2D barcode scanner (reads 1D and 2D)
- 5 MP front camera
- GPS module
- 4G LTE/5G
- Smart card/CAC reader
- NFC/RFID reader

Specifications



Model	323PA/MD
System	
CPU	Intel® Core™ Ultra 5 processor 225U, 12 core (up to 4.80 GHz) Intel® Core™ Ultra 7 processor 255U, 12 core (up to 5.20 GHz)
RAM	Ultra 5: 16GB LPDDR5 Ultra 7: 16GB to 32GB LPDDR5 *The memory is embedded. Alternative configurations are available by special order with MOQ.
Storage	512GB to 2TB *Support quick access SSD function to easily replace the SSD without opening the back cover.
Operating System	Microsoft® Windows® 11 IoT Enterprise
NIST Compliance	NIST compliance BIOS available
Display	13.3" LED-backlit, sunlight-readable 1000 nits touchscreen LCD
Display Resolution	1920 x 1080
Buttons	1 x power button, 2 x brightness control buttons, 5 x programmable buttons
Camera	13 MP back camera
Speaker	Built-in speaker
Microphone	Built-in microphone
Network Interface	
WLAN	Wi-Fi 802.11be, 2.4/5/6 GHz three band
BT	5.4
I/O Ports	
USB Ports	1 x USB3.2 (Type-A), 1 x USB3.2 latest USB/charging
Ethernet Port	1 x Ethernet 10/100/1000MB Base-T LAN
DC-in Jack	1
Mechanical and Environmental	
AC/DC Adapter	Input: 100 to 240V AC; Output: 19V DC, 3.78A
Enclosure	ABS + PC plastic and magnesium-aluminum alloy
Battery Pack	Hot-swappable battery (11.4V, 3800mAh) (Optional) 60W Hot-swappable battery (11.4V, 5400mAh) (Optional) 90W Hot-swappable battery (11.4V, 8000mAh)
Dimensions (H x W x D)	12.8 x 10.7 x 0.8 in/325 x 273.5 x 20 mm
Weight	3.81 lbs/1.72 kg
Temperature	Operation*: -10°C to 60°C (14°F to 140°F) Optional -30°C to 60°C (-22°F to 140°F) *For battery safety and optimal functionality and performance, the recommended usage temperature range is from -10°C to 45°C (14°F to 113°F) Storage: -55°C to 70°C (-67°F to 158°F)
Humidity	0% to 90% non-condensing
Certifications	FCC/IC, CE/CB, ANSI/AAMI ES60601-1, RCM
Durability	IP65, MIL-STD-810H certified
Major Options	
Barcode Scanner	2D barcode scanner (reads 1D and 2D)
Camera	5 MP front camera
GNSS	GPS
Mobile Broadband	4G LTE/5G
NFC/RFID Reader	HF 13.56 MHz, ISO 15693, 14443A(B) and 18000-3 Mode 1
Smart Card/CAC Reader	Half-slot (supports ISO 7816 T=0, T=1); 1.8V/3V/5V smart card

* Specifications subject to change without notice.

Accessories

Digital Pen

Pen Tip	Diameter: 0.059 in/1.5mm, replaceable
Buttons	2 side buttons (right-click and eraser)
Battery	1 AAAA, replaceable
Color	Black
Dimensions	Length: 5.5 in/140 mm (including pen tip) Diameter: 0.38 in/9.7 mm
Weight	0.055 lbs/25 g



Slim Detachable Keyboard

Designed to connect to 323PA/MD tablet without switching and pairing.



Rubber Keyboard

Easy to clean and disinfect, attaches with a magnetic hinge, ideal for preventing contaminant issues.



Battery Charging Kits



Battery Pack



Product Configurator

www.dtresearch.com/productconfig

DT Research
www.dtresearch.com

DT Research, Inc.
2000 Concourse Drive, San Jose, CA 95131
Copyright © 2023, DT Research, Inc. All Rights Reserved.

091426 DT323PA ENG