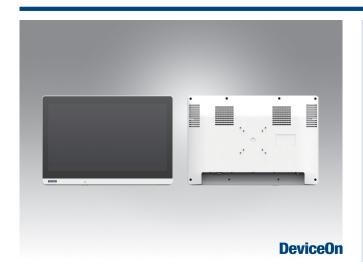
# POC-821

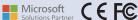
#### 21" Medical Edge Al Panel PC with Intel 13th Gen. CPU and NVIDIA GPU



#### **Features**

- Intel 13th Gen Core i7-13700E CPU
- 21.5" full HD display, multi-touch
- MXM modules A2000 / A4500 supported for high-end graphics
- IP65 front side for Infection control
- Medical 60601-1 compliance
- Optional Wi-Fi, Bluetooth, RFID and camera
- Equipped with Advantech's DeviceOn device management software
- Dual PCle Slots for graphic and add-on card expansion







#### Introduction

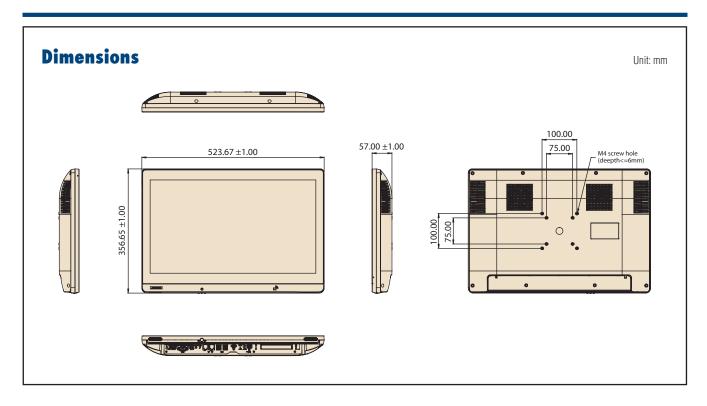
POC-821 is equipped with an integrated SSD, which facilitates real-time data processing and storage. It also supports MXM graphics modules and add-on cards like data capture, I/O extension for high-end graphic applications. Compliant with IEC 60601-1 medical safety standards for electrical devices, POC-8 terminals are built for reliable operation in a wide range of healthcare environments.

Moreover, POC-821 is equipped with Advantech's DeviceOn/iService software, which is a next-generation unified device management solution based on the WISE-DeviceOn platform. With support for batch operations and multi-device control, DeviceOn/iService enables easy device configuration and deployment for convenient remote device management.

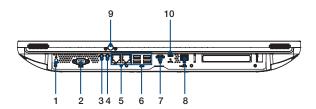
## **Specifications**

Computing System	CPU*	Intel® Core™ i7-13700E Processor, 16 Core, 1.9GHz (24M Cache, up to 5.10 GHz)
	Memory	Support DDR5 Memory up to 64GB (ECC support optional)
	Operating System (Optional)	Windows 10 IoT / Windows 11 IoT(TBD) / Linux (Supported upon request) 64 bits only
Chaman	Primary Storage	Support NVME M.2 SSD (up to 2TB)
Storage	Secondary Storage (optional)	Support 2.5" SATA SSD (up to 2TB)
D: 1	Size	21.5"
Display	Max Resolution	1920 x 1080 Full HD
Touch	Туре	Projected Capacitive 10-points (Clear Glass). (AG/AR support by request)
Graphic	MXM Graphic Module (optional)	NVIDIA A2000 (8GB) or A4500(16GB) MXM MSH mode module
	DC In	x1
	USB 3.2 Type A	x 4
	USB 3.2 Type C	x 1 (with Display function / DP ALT mode)
110	HDMI	x1
I/O ports	LAN (Isolation 1.5 KV)	x2
	Headphone out	x1
	Mic-In	x 1
	COM (RS232) (Isolation 1.5 KV)	x1
	PCle x 16	x 1 (The slot is reserved for MXM graphic module)
	PCle x 4	x1
Expansion Slots	M.2 2280	x 1 (for NVME M.2 SSD Primary storage)
	M.2 2230	x 1 (for Wi-Fi/ Bluetooth module)
	Speaker	x 2 (2W)
Other Functions	Camera (optional)	5M pixel camera available
	TPM	2.0 (default)
Power Input	DC	DC input 24V (Adapter 100~240V/AC, max. 300W)
IP Rating	Front Panel	IP65
Authentication Solution	RFID (optional)	Module as option available
Certificate	EMC & Safety Certificate	Medical CE, FCC Medical, IEC 60601-1 Compliance (MDR) UL 60601-1 CCC
Physical Characteristics	Dimensions (W x H x D)	523.67 x 356.65 x 57mm (20.6" x 14.01" x 2.24")
	VESA Mount	100 x 100; 75 x 75 mm
	Weight	7 kg (15.43 lbs)
Environment	Tomporature	Operating: 0° C ~ 35° C
Environment	Temperature	Storage: 0° C ~ 50° C
Warranty	Warranty	System: 3 year

<sup>\*</sup>Other CPUs supported by project. For details, please contact the sales team.



## I/O Ports



- 1. Equipotential Terminal Pin
- 2. COM Port (RS232)
- 3. Headphone out
- 4. MIC In
- 5. 2 x LAN Ports

- 6. 4 x USB 3.2 Gen 2 Type A
- 7. HDMI
- 8. DC-In
- 9. Power Button
- 10. USB 3.2 Gen 2 Type C

### **CTOS Service**

#### **System's Barebone PN**

Part Number	Description	Panel size	CPU	RAM	Touch type	SSD
POC-821-12B010-CA	POC-821 Corei7/P-cap/ w/o RAM, SSD, MXM	21.5"	i7-13700E	NA	P-CAP	NA
1970005856T001	(CPU Thermal Module) C.L R4 IntelAlder Lake-S 65W 244.7x242.68x27.4					

#### MXM GPU Card Package ( W/ MXM GPU card , MXM carrier board and MXM Thermal Module)

Part Number	Description	GPU model name	<b>GPU MXM Memory size</b>
POC-MXM-102-8A	POC-821/824 MXM A2000 package	A2000	8GB
POC-MXM-104-8A	POC-821/824 MXM A4500 80W package	A4500	16GB

#### Memory

)			
C)			
C)			
262pin SO DIMM 4800 - ECC			
5°C)			
5°C)			
5°C)			
5°C			

#### **NVME M.2 SSD Storage**

Part Number	Description		
SQF-C8MV2-256GDEDM	SQF PCIe/NVMe M.2 2280 OPAL 720-D 256G 3D TLC BiCS5 (-20~85°C)		
SQF-C8MV2-512GDEDM	SQF PCIe/NVMe M.2 2280 OPAL 720-D 512G 3D TLC BiCS5 (-20~85°C)		
SQF-C8MV4-1TDEDM	SQF PCIe/NVMe M.2 2280 OPAL 720-D 1T 3D TLC BiCS5 (-20~85°C)		
SQF-C8MV4-2TDEDM	SQF PCIe/NVMe M.2 2280 OPAL 720-D 2T 3D TLC BiCS5 (-20~85°C)		
SQF-C8BV2-256GDEDM	SQF PCIe/NVMe M.2 2280 OPAL 720-D 256G 3D TLC BiCS5 (-20~85°C)		
SQF-C8BV2-512GDEDM	SQF PCIe/NVMe M.2 2280 OPAL 720-D 512G 3D TLC BiCS5 (-20~85°C)		
SQF-C8BV4-1TDEDM	SQF PCIe/NVMe M.2 2280 OPAL 720-D 1T 3D TLC BiCS5 (-20~85°C)		
SQF-C8BV4-2TDEDM	SQF PCIe/NVMe M.2 2280 OPAL 720-D 2T 3D TLC BiCS5 (-20~85°C)		

#### 2.5" SSD Storage

Description
SQF 2.5" SSD 650 128G 3D BiCS5 (0~70°C)
SQF 2.5" SSD 650 256G 3D BiCS5 (0~70°C)
SQF 2.5" SSD 650 512G 3D BiCS5 (0~70°C)
SQF 2.5" SSD 650 1T 3D BiCS5 (0~70°C)
AMF 2.5" SATA SSD SP111-D 256G 3D TLC (BiCS5) (0~70°C)
AMF 2.5" SATA SSD SP111-D 512G 3D TLC (BiCS5) (0~70°C)
AMF 2.5" SATA SSD SP111-D 1T 3D TLC (BiCS5) (0~70°C)

<sup>\*</sup>Note: Add materials listed under "2.5" SSD mouniting kit" for 2.5" SSD installation

#### 2.5" SSD Mounting Kit

Part Number	Description	Quantity
1960098903N001	SSD Bracket	1
1940003234	Gasket	1
19330304A0	Screw	8
2130022205T000	Sponge	1
1700024977-21	SATA cable	1
1700022355-21	Power cable	1

#### Wi-Fi + BT Module

Part Number	Description
EWM-W165M201E	Intel AX210 6E 802.11ax + BT5.2 M.2 2230 No.Vpro

## **Recommended Mounting Solution**

Model Name	ARES-2423R
Part Number	ARES-2423R-A741L00
Photo	
Max. Support Weight	6 - 12kg
Max. Support Panel Size	≤ 27"
VESA Information	75 x 75 mm 100x100 mm

For more information, please clink this link:  $\underline{\text{https://bit.ly/3T7dLMR}}$ 

# **DeviceOn**

## Unified Remote Device Management Software



#### **Features**

- Supports Advantech devices equipped with Windows, Android, and Linux OS
- Flexible device, location, user, and permissions management
- Enables remote monitoring and control of hardware, software, and peripherals
- Supports over-the-air (OTA) firmware and software updates
- Ensures quick, easy, and secure device onboarding
- RESTful APIs for third-party system integration

#### Introduction

Advantech's DeviceOn is a next-generation unified device management solution based on the WISE-DeviceOn platform. Designed to enable centralized monitoring and remote management, DeviceOn supports Advantech devices equipped with Windows, Linux, or Android operating systems. The software also supports the management of applications and integrated peripherals, such as a barcode scanner, card reader, camera, and printer. Users can remotely access and control connected devices, take screenshots, rollout OTA upgrades, and use remote desktop capabilities for troubleshooting from any location at any time. Moreover, DeviceOn supports batch operations to facilitate the management of multiple devices simultaneously for easy and convenient device configuration and deployment.

#### **Total Management**



#### **Devices & Hardware**

- Windows, Linux, Android
- Hardware, storage, battery

**Remote Access** 

#### Real-Time Monitoring

- Connection/hardware status
- Software/peripheral status
- Failure notifications



#### **OTA updates**

**Operational Efficiency** 

- System/software updates
- File repository management
- App store



#### **Software & Peripherals**

- Software monitoring & access
- Screens, USB devices, printers



#### **Remote Controls**

- Power controls
- · Audio, backlight controls
- Software controls



#### **Batch Controls**

- 1-to-many batch reboot, etc.
- Time-saving tasks



#### **Open for Expansion**

- Peripheral integration
- Open APIs for integration



#### **Troubleshooting**

- Screenshots
- Remote desktop support



#### Setup Booster

- Software/peripheral watchlist
- Roles, rule templates

Note: Some functions may vary according to the product

## **System Architecture**



## **DeviceOn Specifications**

	Operating System	Windows 10
	Common Controls (Reboot, Shutdown)	✓
	Remote desktop	√(VNC)
	Device-Specific Controls (Audio, Backlight)	<b>√</b> *
	Connection Status	✓
Davisson Damata Davisa	Hardware Status	<b>√</b> *
DeviceOn Remote Device Management	Hard Disk Status	<b>√</b> *
Management	Batch Operation Support	✓
	OTA Storage Management	FTP
	OTA Software Updates	✓
	Software Watchlist	✓
	Software Start/Stop	<b>√</b> *
* Dependant on device model	Peripherals Watchlist	<b>√</b> *

Note:

1. DeviceOn software must be downloaded from the Advantech website at https://www.advantech.com/search/?q=DeviceOn%2FiService&st=support&sst=Utility