POC-421

21" Point-of-Care Terminal with 12th Generation Intel® Processor



Features

- 12th generation Intel[®] Core[™] i5/celeron processor
- 21.5" full HD display with multi-touch P-CAP control
- M.2 expansion slots for integrating add-on modules
- Fanless design with upgrade IP54-rated protection for superior hygiene and infection control
- Equipped with Advantech's DeviceOn device management software
- Optional Wi-Fi 6, Bluetooth, Dual RFID, smart card reader and auto-focus 5 megapixel camera













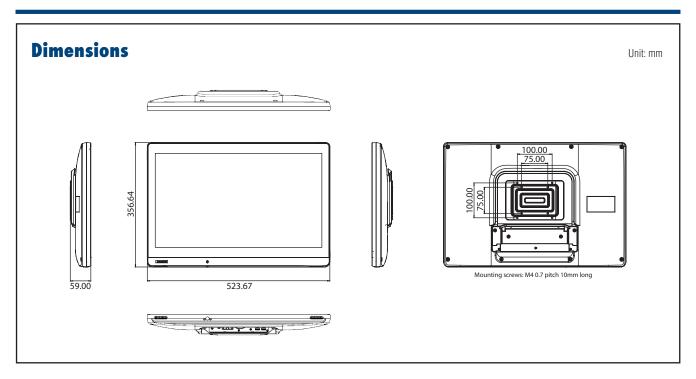
Introduction

POC-421 is equipped with an integrated NVME SSD that facilitates real-time data processing and storage. Compliant with IEC/EN60601-1-2 Medical EMC standards for electrical devices, POC-421 terminals are built for reliable operation in a wide range of healthcare environments.

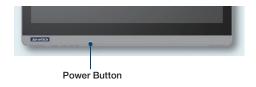
Moreover, POC-421 is equipped with Advantech's DeviceOn/iService software, which is a next-generation unified device management solution based on the WISE-DeviceOn platform. With support for batch operations and multi-device control, DeviceOn/iService enables easy device configuration and deployment for convenient remote device management.

Specifications

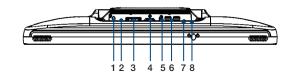
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Contain	Processor*	Intel® Core™ I5-1245UE 10cores,12M Cache, up to 4.40 GHz Intel® Celeron 7305E 5cores 8M Cache, 1.00 GHz	
System	Memory (default)	Memory (default) 8GB DDR5 (supports up to 32GB DDR5 SODIMM) Operating System (optional) Windows 10 IoT Ent (64 bits only); Windows 11 IoT Ent (64 bits only)	
Storage	Primary Storage (optional)	NVME M.2 SSD 256GB (M.2 2280)	
Display	Size Max. Resolution	21.5 inch 1920 x 1080	
Touch	Туре	10-point multi touch P-CAP (clear glass);	
V0	USB 3.1 Gen 2 (Type A) USB 3 Type C HDMI Mic in/ Head phone out LAN non-isolation COM (RS232)	4 1 1 1 2	
		1 (for Wi-Fi 6E /Bluetooth 5.3 module)	
Other Functions	Speaker Camera TPM 1.2/2.0	2 x 2W 1 x 5 megapixel (optional) 2.0 (default via software)	
Power Input	DC/AC	DC 12V, max. 84W	
IP Rating	Front Panel System	IP65 IPX1 (IP54 optional)	
Authentication Solution (Choose 1)	RFID Reader Smart Card Reader**	Optional (choose either RFID or smart card reader) Optional (choose either RFID or smart card reader)	
Certification EMC & Safety Medical CE: EMC (IEC 60601-1-2, 4th Edition) & Safety IEC/EN		Medical CE: EMC (IEC 60601-1-2, 4th Edition) & Safety IEC/EN 60601-1, FCC Part 15	
Physical Characteristics	Dimensions (W x H x D) Weight VESA Mount	524 x 357 x 62 mm/20.63 x 14.06 x 2.44 in 6.29 kg/13.86 lb 100 x 100; 75 x 75 mm	
Environment	Temperature	0 ~ 35 °C/32 ~ 95 °F (Operating) 0 ~ 50 °C/32 ~ 122 °F (Storage) 10-95% ,40°C (Operating)	
Environment	Humidity Shock Resistance	5~ 95% ,60°C (Storange) 10G peak acceleration (11ms duration)	
Warranty	System	3 years	



Front Function Keys



I/O Ports



- 1. 1 x USB Type C
- 2. Mic in/ Head phone out
- 3. 2 x Giggabit Ethernet
- 4. 1 x COM Port (RS232)
- 5. HDMI
- 6. 4 x USB 3.1
- 7. DC-In 12V
- 8. Equipotential Terminal pin

Multimodal



All-in-One PC



Touch Display (PAX-1)



Box PC (USM-100)

CTOS Service

Ordering Information

Grade	Part number	Description	DRAM	Touch	SSD	WIFI
Medical	POC-421-12B00D-CE	21.5", Core i5, 8G RAM, 256G NVME, WIFI, IPX1, P-CAP Touch, MDR	8GB DDR5	P-CAP	256G	WIFI 6E & BlueTooth5.3
Medical	POC-421-12B000-CE	21.5", Core i5, Bare BOM, IPX1, P-CAP Touch, MDR	N	P-CAP	N	N

WIFI, IP54, Touch Display Modules

Part Number	Description	Grade
POC-42X-WF3E	POC-4,AX210,WIFI6E,BT5.3,Antenna,RF-RED	Global/RED
98R8P0C4030	POC-424,IP54,waterproof suite kit package	Global/IP54
98R8P0C4080	POC-421,IP54,waterproof suite kit package	Global/IP54
98R8P0C4040	POC-4,21.5" Touch display module,W/Cover	Global
98R8P0CS050	POC-4,23.8" Touch display module,W/Cover	Global

Memory

Part Number	Description	
SQR-SD5N8G4K8SNGBB	262pin SODIMM DDR5 4800 8GB 1.1v 1Gx16 (0 ~ 85 °C) Samsung	
SQR-SD5N16G4K8SNBB	262pin SODIMM DDR5 4800 16GB 1.1v 2Gx8 (0 ~ 85 °C) Samsung	
SQR-SD5N32G4K8SNBB	262pin SODIMM DDR5 4800 32GB 1.1v 2Gx8 (0 ~ 85 °C) Samsung	

M.2 2280 SQF NVME

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Part Number	Description			
SQF-C8MV2-128GCEDC	SQF PCIe/NVMe M.2 2280 OPAL 720-C 128G 3D TLC BiCS4 (0 ~ 70 °C)			
SQF-C8MV2-256GCEDC (Focus)	SQF PCIe/NVMe M.2 2280 OPAL 720-C 256G 3D TLC BiCS4 (0 ~ 70 °C)			
SQF-C8MV4-512GCEDC	SQF PCIe/NVMe M.2 2280 OPAL 720-C 512G 3D TLC BiCS4 (0 ~ 70 °C)			
SQF-C8MV4-1TCEDC	SQF PCIe/NVMe M.2 2280 OPAL 720-C 1T 3D TLC BiCS4 (0 \sim 70 °C)			
SQF-C8MV4-2TCEDC	SQF PCIe/NVMe M.2 2280 OPAL 720-C 2T 3D TLC BiCS4 (0 ~ 70 °C)			
SQF-C8BV2-128GDEDM	SQF PCIe/NVMe M.2 2280 OPAL 720-D 128G 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)			

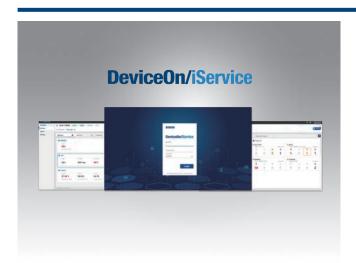
Recommended Mounting Solution

Model Name	ARES-2423R	ARES-2421R
Part Number	ARES-2423R-A741L00	ARES-2421R-HA74100
Photo		
Max. Support Weight	6 - 12kg	2 - 8kg
Max. Support Panel Size	≦ 27"	≤ 27"
VESA Information	75 x 75 mm 100x100 mm	75 x 75 mm 100x100 mm

For more information, please clink this link: https://bit.ly/3T7dLMR

DeviceOn/iService

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

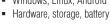
Introduction

Advantech's DeviceOn/iService is a next-generation unified device management solution based on the WISE-DeviceOn platform. Designed to enable centralized monitoring and remote management, DeviceOn/iService 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/iService supports batch operations to facilitate the management of multiple devices simultaneously for easy and convenient device configuration and deployment.

Total Management









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/iService Specifications

	Operating System	Windows 10
	Common Controls (Reboot, Shutdown)	\checkmark
	Remote desktop	√(VNC)
	Device-Specific Controls (Audio, Backlight)	√*
	Connection Status	\checkmark
Device On // Convince Domesto	Hardware Status	√ *
DeviceOn/iService Remote Device Management	Hard Disk Status	√ *
Device ivialiagement	Batch Operation Support	\checkmark
	OTA Storage Management	FTP
	OTA Software Updates	\checkmark
	Software Watchlist	\checkmark
	Software Start/Stop	√ *
* Dependant on device model	Peripherals Watchlist	√ *

Note

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