ADVANTECH
Enabling an Intelligent Planet

POC-424

24" Point-of-Care Terminal

debetrek

Advantech POC-424

POC-424 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-424 terminals are built for reliable operation in a wide range of healthcare environments.

Moreover, POC-424 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.

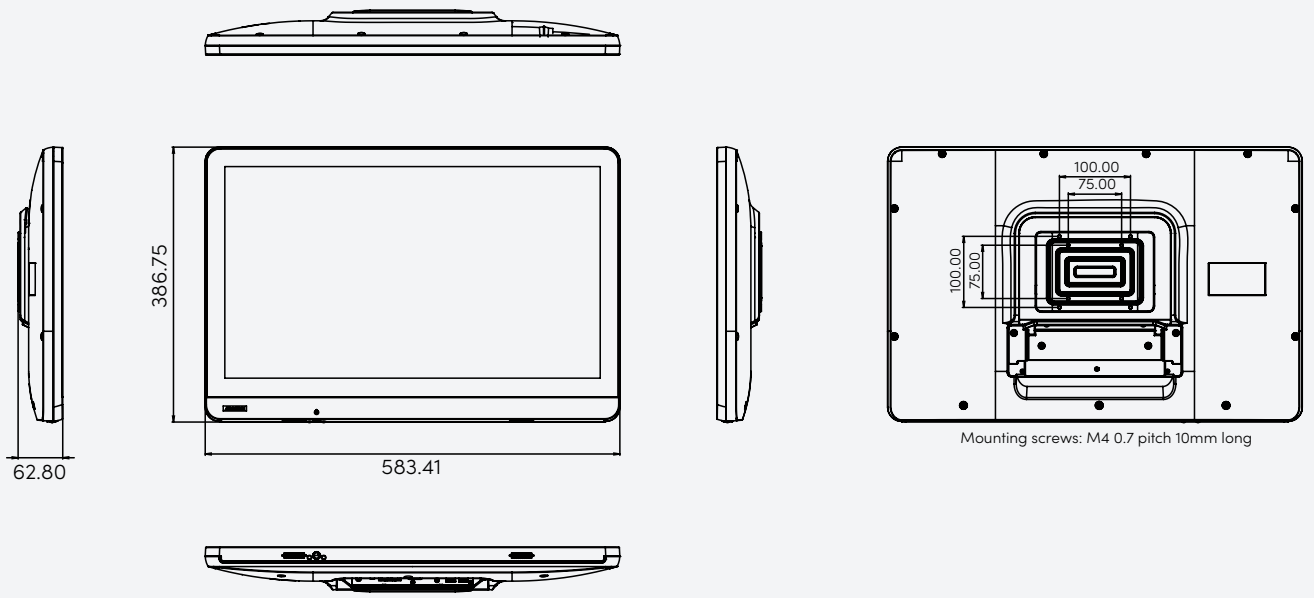
Features

- 12th generation Intel® Core™ i5/celeron processor
- 23.8" 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

Product Details

Dimensions

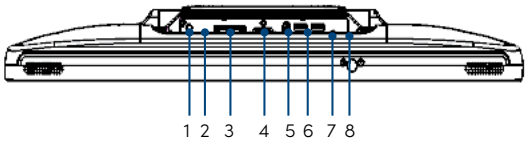
Unit: mm



Front Function Keys

Power Button

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)

DeviceOn/iService

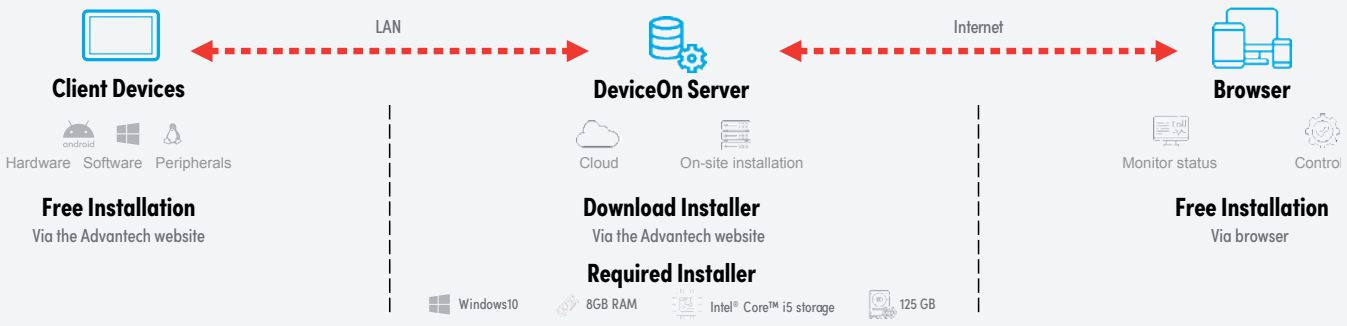
Unified Remote Device Management Software

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.

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

System Architecture



Total Management

Devices & Hardware

» Windows, Linux, Android
» Hardware, storage, battery

Open for Expansion

» Peripheral integration
» Open APIs for integration

Software & Peripherals

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

Operational Efficiency

OTA updates

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

Setup Booster

» Software/peripheral watchlist
» Roles, rule templates

Batch Controls

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

Remote Access

Real-Time Monitoring

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

Troubleshooting

» Screenshots
» Remote desktop support

Remote Controls

» Power controls
» Audio, backlight controls
» Software controls

Note: Some functions may vary according to the product

Mounting Solutions

Model:	ARES-2423R
Part number:	ARES-2423R-A741L00
Max. Support Weight:	6 - 12kg
Max. Support Panel Size:	≦27"
VESA Information:	75 x 75 mm 100x100 mm

Model:	ARES-2421R
Part number:	ARES-2421R-HA74100
Max. Support Weight:	2 - 8kg
Max. Support Panel Size:	≦27"
VESA Information:	75 x 75 mm 100x100 mm

Specifications

System:	Processor	Intel® Core™ I5-1245UE 10cores,12M Cache, up to 4.40 GHz Intel® Celeron 7305E 5cores 8M Cache, 1.00 GHz
	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	23.8 inch
	Max. Resolution	1920 x 1080
Touch:	Type	10-point multi touch P-CAP (clear glass);
I/O:	USB 3.1 Gen 2 (Type A)	4
	USB 3 Type C	1
	HDMI	1
	Mic in/ Head phone out	1
	LAN non-isolation	2
	COM (RS232)	1
Expansion slots	M.2 2230 E. Key	1 (for Wi-Fi 6E /Bluetooth 5.3 module)
Other functions:	Speaker	2 x 2W
	Camera	1 x 5 megapixel (optional)
	TPM 1.2/2.0	2.0 (default via software)
Power input:	DC/AC	DC 12V, max. 84W
IP rating:	Front Panel	IP65
	System	IPX1 (IP54 optional)
Authentication solution (choose 1):	RFID Reader	Optional (choose either RFID or smart card reader)
	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 60601-1, FCC Part 15
Physical characteristics:	Dimensions (W x H x D)	583 x 387 x 68 mm/22.95 x 15.2 x 2.68 in
	Weight	7.78 kg/17.15 lb
	VESA Mount	100 x 100; 75 x 75 mm
Environment:	Temperature	0 ~ 35 °C/32 ~ 95 °F (Operating) 0 ~ 50 °C/32 ~ 122 °F (Storage)
	Humidity	10~95% ,40°C (Operating) 5~ 95% ,60°C (Storage)
	Shock Resistance	10G peak acceleration (11ms duration)
Warranty:	System	3 years

CTOS Service

Ordering Information

Grade:	Part number:	Description:	DRAM:	Touch:	SSD:	WIFI:
Medical	POC-424-12B00D-CE	23.8", Core i5, 8G RAM, 256G NVME, WIFI, IPX1, P-CAP Touch, MDR	8GB DDR5	P-CAP	256G	WIFI 6E & BlueTooth5.3
Medical	POC-424-12B000-CE	23.8", 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
98R8POC4030	POC-424,IP54,waterproof suite kit package	Global/IP54
98R8POC4080	POC-421,IP54,waterproof suite kit package	Global/IP54
98R8POC4040	POC-4,21.5" Touch display module,W/Cover	Global
98R8POCS050	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

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 ~ 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)

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