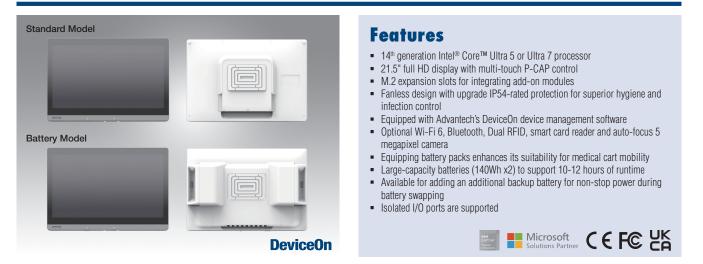
POC-421

21" Point-of-Care Terminal with 14th Generation Intel[®] Processor



Introduction

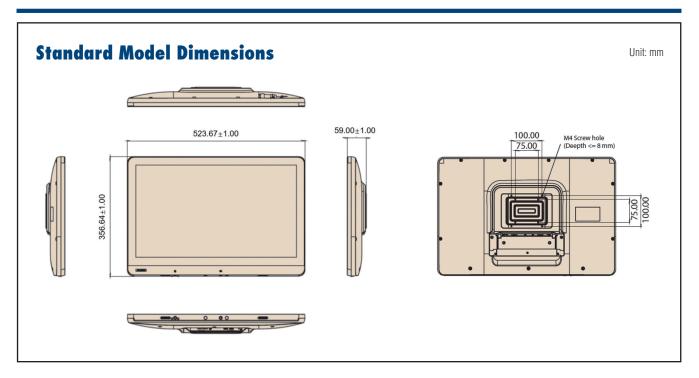
POC-421, featuring an integrated NVME SSD for real-time data processing and storage, now includes the added benefit of enhanced suitability for medical cart mobility through equipping battery packs. Compliant with IEC/EN60601-1-2 Medical EMC standards, POC-421 terminals ensure reliable operation in diverse healthcare environments.

Moreover, POC-421 is equipped with Advantech's DeviceOn 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 enables easy device configuration and deployment for convenient remote device management.

Specifications

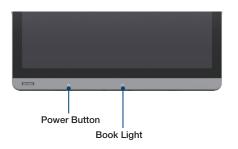
	Processor	14 th generation Intel [®] Core™ Ultra 5 processor, up to 4.30 GHz or Intel [®] Core™ Ultra 7 processor, up to 4.8GHz	
System	Memory (default)	Memory (default) 16GB DDR5 (supports up to 32GB DDR5 SODIMM) Operating System (optional) Windows 10 IoT Ent (64 bits only); Windows 11 Pro (64 bits only), Ubuntu 22.04	
Storage	Primary Storage (optional)	NVME M.2 SSD 256GB (M.2 2280)	
Display	Size	21.5"	
	Max Resolution	1920 x 1080 (FHD)	
	Contrast Ratio	1000	
	Touch Function	10-point multi touch P-CAP (clear glass), AG option	
	USB 3.2 Type A	4	
	USB 3 Type C	1 (With 27W, maximum 9V/3A, power delivery, and ALT mode support.)	
1/0	HDMI	1	
1/0	LAN (1.5KV Isolation)	2	
	COM (RS232)	1 (Optional USB 2.0 x 2)	
	Mic in/head phone out	1 TRRS port	
Expansion Slots	M.2 2230 E. Key	1 (for Wi-Fi 6 /Bluetooth 5.3 module)	
	iDoor	4KV idoor (1C0M+2USB); 4KV idoor (1LAN); 1.5KV idoor (1C0M), optional by only Battery Model	
	Power Button	1	
	Speaker	2 x 2W	
Other Functions	Book Light	Support	
	Camera	1 x 5 megapixel (optional)	
	TPM 1.2/2.0	2.0	
Power Input	DC / AC	DC 19V (Medical DC Jack pin)	
	Front Panel	IP65	
IP Rating	System	IPX1 (I/O without cover) with Standard Model IP43 (I/O with cover) with Battery IP54 (I/O with cover) without Battery	
Authentication Solution	RFID Reader	Optional (select either RFID or Smart Card Reader)	
(Either or)	Smart Card Reader	Optional (select either RFID or Smart Card Reader)	
	Backup Battery	20Wh (optional only by Battery Model)	
Battery Solutions	Hot-Swap Battery	140Wh x2 (default), only by Battery Model	
	Charging in Charging Station	2 slots: Charging time <2 Hours from 20% to 80%	
Certificate	EMC & Safety	Medical CE/FCC MDR RED ErP Battery pack: IEC62133, UN38.3	
	Dimensions (W x H x D)	524 x 357 x 59 mm/20.63 x 14.06 x 2.32 in (Standard Model)	
Physical Characteristics	Weight	6.29 kg/13.86 lb (Standard Model)	
	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	95%,40°C (Operating) 95%,60°C (Storage)	
	Shock Resistance	10G peak acceleration (11 ms duration)	
Warranty	System	3 year	

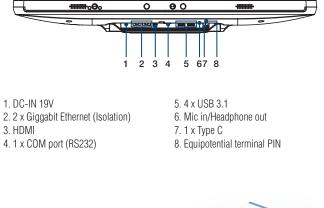
POC-421



Front Function Keys

I/O Ports





Multimodal



All-in-One PC

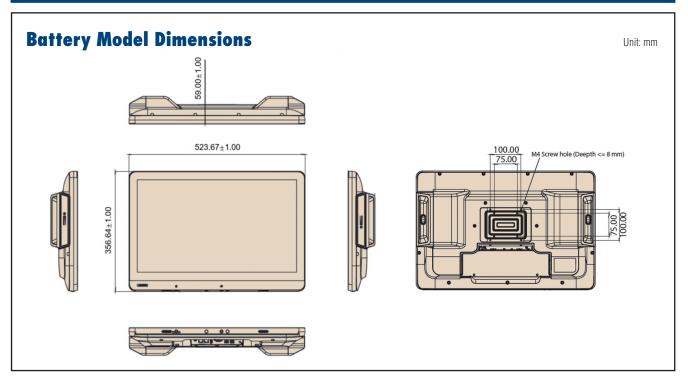


Touch Display (PAX-1)

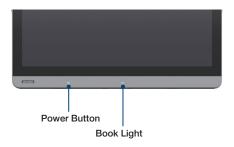


Box PC (USM-100)

POC-421



Front Function Keys



I/O Ports

1. DC-IN 19V

- 2. 2 x Giggabit Ethernet (Isolation) 3. HDMI
- 4. 1 x COM port (RS232)
- 5. 4 x USB 3.16. Mic in/Headphone out7. 1 x Type C
- 8. Equipotential terminal PIN

Medical Carts

AMiS-30EG





iDoor Ports



Optional isolated iDoor selected each as blow: 1. 1 x COM + 2 USB 4KV* 2. 1 x LAN 4KV* 3. 1 x COM 1.5KV*

AD\ANTECH

Battery Model Accessories

Hot-Swapping Battey Module

Charging Station

Battery Module

Part Number	Description
96PD-01847	Battery pack with (1 pcs) 140Wh Battery of POC – 4 Hot-Swap Power system
POC-IPSM150CS2	Charging station (2 slots) of POC -4 Power System

Battery Pack Specification

Standard Version	96PD-01847
Battery Pack Type	Lithium-ion battery
Battery Pack Capacity	140Wh
Total Capacity**	280Wh (2 x battery packs, 140Wh per battery)
Battery Runtime	9~11 hours
Battery Lifespan	500 cycle time 70%
Capacity Indicator	LED indicator with 5 levels
Weight (Estimated)	868g/1.9lb

**Hot swap batteries are 2 pieces.

LED Indicator



Recommended Mounting Solution

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

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

CTOS Service

Ordering Information

Level	Part number	Description	CPU	DRAM	Battery	Touch	SSD	WIFI & BlueTooth
Medical	POC-421-14A01D-CE	21.5", Core U7, 16G RAM, 256G, WIFI6, IP54, P-CAP Touch, MDR	Ultra 7	16GB DDR5	NA	P-CAP	256G	WIFI 6 & BlueTooth 5.3
Medical	POC-421-14B01D-CE	21.5", Core U5, 16G RAM, 256G, WIFI6, IP54, P-CAP Touch, MDR	Ultra 5	16GB DDR5	NA	P-CAP	256G	WIFI 6 & BlueTooth 5.3
Medical	POC-421-14A02B-CE	21.5", Core U7, 16G RAM, 256G, WIFI6, IP43, BAT Ver., P-CAP Touch, MDR	Ultra 7	16GB DDR5	Optional Battery	P-CAP	256G	WIFI 6 & BlueTooth 5.3
Medical	POC-421-14B02B-CE	21.5", Core U5, 16G RAM, 256G, WIFI6, IP43, BAT Ver., P-CAP Touch, MDR	Ultra 5	16GB DDR5	Optional Battery	P-CAP	256G	WIFI 6 & BlueTooth 5.3

*This model is default without 20Wh backup battery (optional).

WIFI, IP54 / IP43, Touch Display Module

Part number	Description	Grade
98R8POC4080	POC-421,IP54,waterproof suite kit package,w/o Battery	Global/IP54
98R8POC4081	POC-421, IP43, waterproof suite kit package, w/ Battery	Global/IP43
98R8POC4040	POC-4,21.5" Touch display module,W/Cover	Global

M.2 2280 SQF NVME

Memory

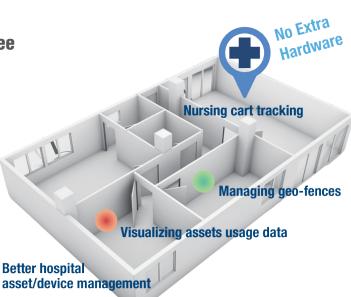
Part number	Description	Part number	Description
SQR-SD5N8G5K6SNGPB	262pin SODIMM DDR5 5600 8GB 1.1v 1Gx16 (0-95 °C) Samsung	SQF-C8MV2-256GDFES	SQF PCIe/NVMe M.2 2280 OPAL 730-D, Gen.4, LPM ON, 256G 3D TLC BiCS5 (-20~85°C)
SQR-SD5N16G5K6SNPB	262pin 5600 2GX8 16GB SODIMM 1.1v 2Gx8 (0~95 °C) Samsung	SQF-C8MV2-512GDFES	SQF PCIe/NVMe M.2 2280 OPAL 730-D, Gen.4, LPM ON, 512G 3D TLC BiCS5 (-20~85°C)
SQR-SD5N32G5K6SNPB	262pin 5600 2GX8 32GB SODIMM 1.1v 2Gx8 (0~95 °C) Samsung	SQF-C8MV4-1TDFES	SQF PCIe/NVMe M.2 2280 OPAL 730-D, Gen.4, LPM ON, 1T 3D TLC BiCS5 (-20~85°C)

Software Add-ons Device real-time location software

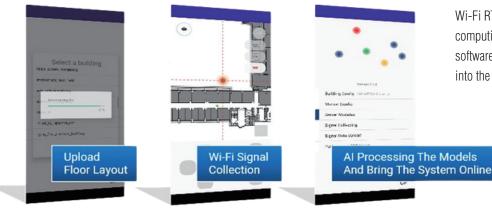
Wi-Fi RTLS infra-free

Seamlessly connect your edge computing devices into the RTLS system

Advantech Wi-Fi RTLS infra-free software enables immediate location tracking and status monitoring of devices. RTLS contributes to asset management, improves patient care efficiency, and ensures equipment is used sustainably. It also supports compliance with health and safety regulations.



Deploy Faster



Wi-Fi RTLS is a perfect fit for edge computing devices. By embedding the software, devices can seamlessly integrate into the RTLS system.

Order Information

Part Number	Description
31ASRTLSOF01B1	Android
31ASRTLSOF01B2	Windows
31ASRTLSOF01B3	Linux

Supported Models: POC-4/6/8 series; USM-1/3/5 series ; HIT-3/5 series

Contact us

Email: AiH.service@advantech.com

Click the link to visit our product page for more details, or scan the QR code.

