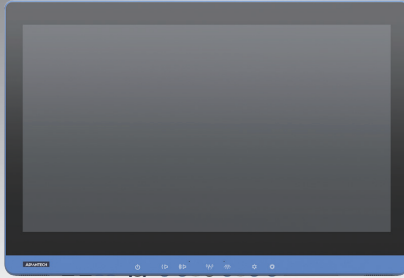


POC-621

21" Point-of-Care Terminal with 15th Generation Intel Processor

NEW



Features

- 15th generation Intel Core Ultra 7 255H and Ultra 5 225H processor integrated AI engine function
- 21.5" full HD display with multi-touch P-CAP control
- Default with Optical Bonding and Anti Glare touch screen
- Multiple I/O, including USB 3.2 Gen 2 (Type A), USB 3.2 Gen 2 (Type C) with display function, and HDMI
- PCIe x4, M.2 expansion slots to reach AI workload
- Fanless design with IP54-rated protection for superior hygiene and infection control
- Optional Wi-Fi, Bluetooth, RFID, Barcode reader, Li-ion battery pack, 4K pixel camera and Mic array for future edge AI application

Introduction

POC-621 equipped with an integrated NVME SSD can facilitate real-time data processing and storage. Compliant with IEC 60601-1 medical safety standards for electrical devices, POC-6 terminals are built for reliable operation in a wide range of healthcare environments.

Specifications

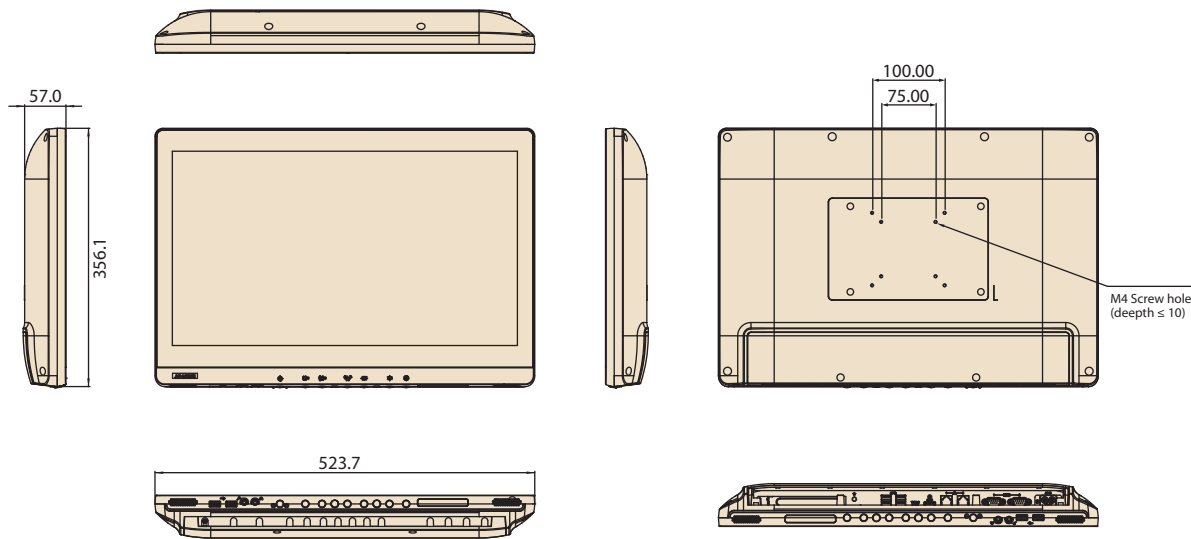
System	Processor	Intel® Core™ Ultra 7 Processor 255H/ Ultra 5 Processor 225H
	Memory (optional)	DDR5 SODIMM up to 64GB
	Storage (optional)	2 x NVME SSD (M.2 2280)
	Operating System (optional)	Win 11 LTSC / Win 11 Pro and Ubuntu 24.04 by project support
Display	Size	21.5 inch
	Max. Resolution	1920 x 1080
	Screen Max. luminance	250 nits
Touch	Type	10-point multi-touch P-CAP with Anti-glare
I/O	USB 3.2 Gen 2 (Type A)	4
	USB 3.2 Gen 2 (Type C)	1 (with display function)/DP ALT Mode
	USB 2.0 Type A	2
	HDMI	1 (support HDMI2.0)
	LAN isolation, 1.5KV	2 (LAN1 with Intel i219LM, LAN2 with Intel i226LM)
	Mic-In/ Headphone-Out	1/1
	COM (RS232) 1.5KV	2
Expansion Slots	PCIe x4 (Gen 3)*	1 (card length: 167.65mm/6.6in Max)
	M.2 2230	1 (for Wi-Fi/Bluetooth module)
	M.2 2280	2 (reserved for NVME SSD and second M.2 slot for AI accelerate card or second storage)
Other Functions	Speaker	2 x 2W
	LED Book Light	2
	Mic Array	Omnidirectional mic array with 2 microphones (optional by project support)
	Camera	1x 4K resolution (3840 x 2160) up to 30 fps (optional by project support)
	WIFI and Bluetooth	Wi-Fi 6 + BT Module 2.4/5/6GHz M.2 2230 No.Vpro (optional)
	TPM 2.0	2.0 (default via fTPM –Firmware TPM)
	Built-in battery backup	Lithium-ion battery (optional)
Housing	Material	Plastic with optional Anti-Microbial coating
Power Input	AC	100 – 240V, max. 150W
IP Rating	Front Panel	IP65
	System	IP54
Authentication Solution	RFID Reader	Optional by project support
	Barcode Reader	Optional, external module
Certification	EMC & Safety	Medical CE, FCC EN 60601-1 Compliance
	Green	RoHS REACH
Physical Characteristics	Dimensions (L x W x H)	523.7 x 356.1 x 57 mm
	VESA Mount	100 x 100; 75 x 75
	Weight	Net weight: 7.5 kg
Environment	Operating Temperature	0 – 35 °C/32 – 95 °F
	Storage Temperature	0 – 50 °C/32 – 122 °F
Warranty	System	3 years
	Backup battery pack	1 year or capacity 70% and 300 cycles (whichever happens first)

* Either PCIe x4 or backup battery can be installed.

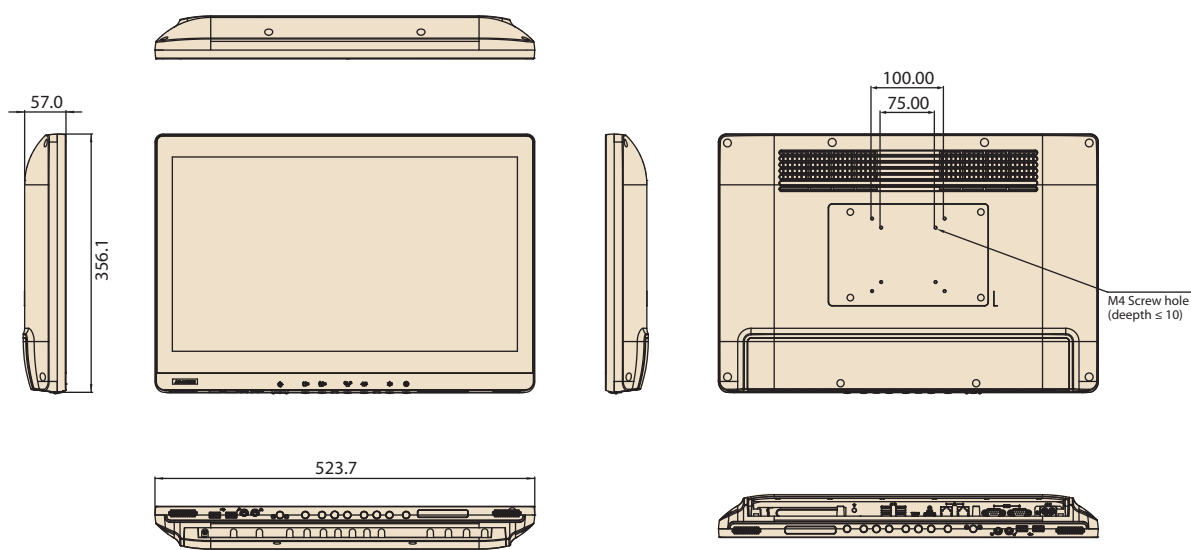
Dimensions

Unit: mm

Standard



Option with ventilation hole

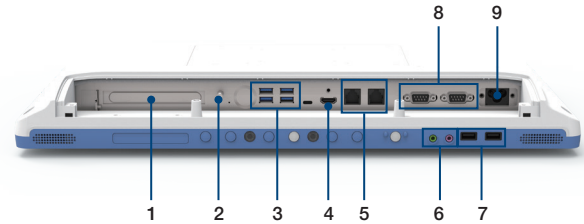


Front Function Keys



1. Power button
2. Volume down/up
3. Touchscreen status control
4. Read light control
5. Brightness down/up

I/O Ports



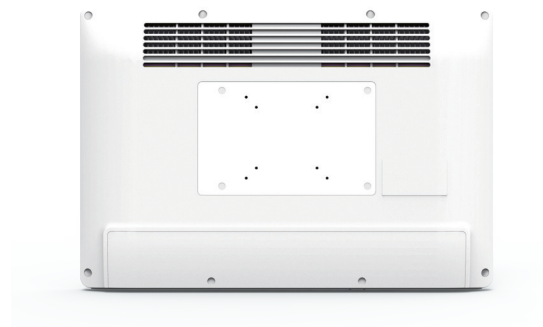
1. 1 x PCIe x4 slot
2. Equipotential terminal pin
3. 4 x USB 3.2 (Type A) / 1 x USB Type-C
4. HDMI
5. 2 x Gigabit Ethernet
6. Headphone-out/ Mic-in
7. 2 x USB 2.0
8. 2 x COM (RS-232)
9. AC in

Rear cover style

Standard



Option with ventilation hole



Note: with ventilation hole for better thermal condition/higher CPU performance

Configuration To Order Service (CTOS)

Ordering Information (Barebone)

Part Number	Description
POC-621-03A110-BE	POC-621 U7 barebone w/o ventilation
POC-621-03B110-BE	POC-621 U5 barebone w/o ventilation

Component Offerings

Memory

Part Number	Description
SQR-SD5N16G5K6HNAG	SODIMM DDR5 5600 16GB 2Gx8 Hynix
SQR-SD5N32G5K6HNAG	SODIMM DDR5 5600 32GB 2Gx8 Hynix
SQR-SD5N16G5K6SNPB	SODIMM DDR5 5600 16GB 2Gx8 Samsung
SQR-SD5N32G5K6SNPB	SODIMM DDR5 5600 32GB 2Gx8 Samsung

M.2 2280 NVME SSD

Part Number	Description
SQF-C8MV2-512GDEDM	SQF M.2 2280 720-D 512G 3D TLC BiCS5
SQF-C8MV4-1TDEDM	SQF M.2 2280 720-D 1T 3D TLC BiCS5
SQF-C8MV4-2TDEDM	SQF M.2 2280 720-D 2T 3D TLC BiCS5
SQF-C8MV4-2TDEFE	SQF M.2 2280 730-D 2T 3D TLC BiCS5

Power Cord

Part Number	Description
1700001524	Power Cord UL 3P 7A 125V 183cm (USA)
170203183C	Power Cord EU 3P 2.5A 250V 183cm (Europe)
170203180A-01	Power Cord ASTA 3P 2.5A 250V 183cm (UK)
1700008921	Power Cord PSE 3P 7A 125V 183cm (Japan)

Wi-Fi+ BT Module

Part Number	Description
EWM-W165M201E	Wi-Fi 6 + BT Module 2.4/5/6GHz M.2 2230 No.Vpro

OS Image

Part Number	Description
TBC	Win11 LTSC

Battery Module

Part Number	Description
TBC	Backup battery for POC-621/624

Note: please only charge the battery under the system idle mode.