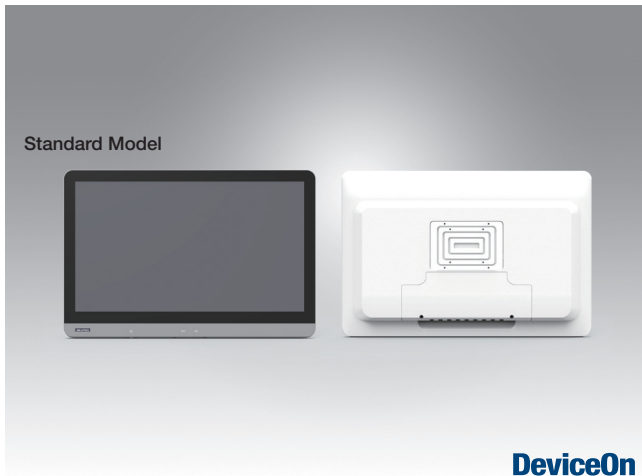


# POC-421

## 21" Point-of-Care Terminal with 16<sup>th</sup> Generation Intel® Processor



### Features

- 16<sup>th</sup> generation Intel® Core™
- 21.5" full HD display with multi-touch P-CAP control, Default with Anti-Glare touch
- Optical Bonding Design
- 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
- Isolated I/O ports are supported



### Introduction

POC-421, featuring an integrated NVME SSD for real-time data processing and storage. Compliant with IEC/EN60601-1-2 Medical EMC standards, POC-421 terminals ensure reliable operation in diverse healthcare environments.

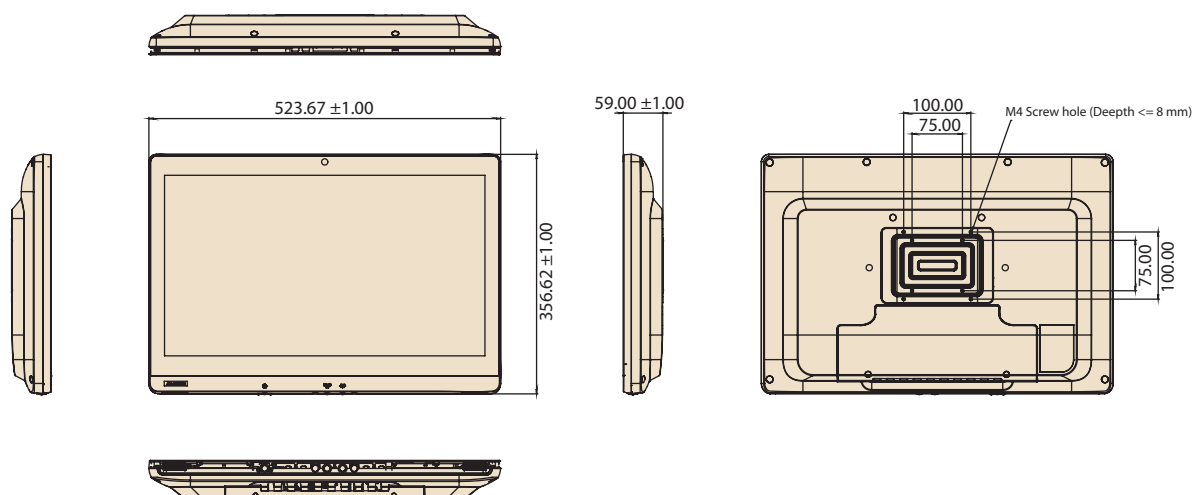
Moreover, POC-421 is equipped with Advantech's DeviceOn software, which is a next-generation unified device management solution based on the WISE-DeviceOn platform. With support for batch operations and multi-device control, DeviceOn enables easy device configuration and deployment for convenient remote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

### Specifications

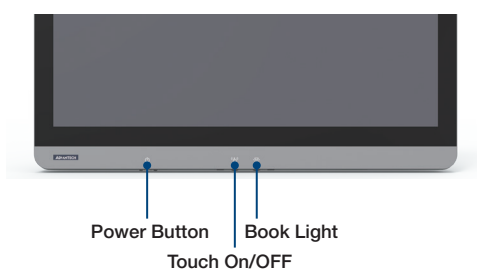
|                                     |                                   |                                                                                                                                                                                  |
|-------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System                              | Processor                         | 16 <sup>th</sup> generation Intel® Core™ i3 304                                                                                                                                  |
|                                     | Memory (default)                  | Memory (default) 16GB DDR5 (supports up to 64GB DDR5-5600 SODIMM)<br>Operating System (optional): Windows 11 Pro (64 bits only), Ubuntu 22.04, Windows 11 IoT Ent (64 bits only) |
| 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, AG (Anti-Glare), Optical bonding                                                                                                                     |
| I/O                                 | USB 3.2 Type A                    | 4                                                                                                                                                                                |
|                                     | USB 3 Type C                      | 1 (With 30W, Maximum 5V/3A & 9V/3A & 15V/2A & 20V/1.5A, power delivery, and ALT mode support.)                                                                                   |
|                                     | HDMI                              | 1                                                                                                                                                                                |
|                                     | LAN (1.5KV Isolation)             | 2                                                                                                                                                                                |
|                                     | COM (RS232/422 By BIOS to choose) | 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 (1COM+2USB); 1.5KV idoor (1COM), optional by iDoor                                                                                                                     |
| Other Functions                     | Power Button                      | 1                                                                                                                                                                                |
|                                     | Speaker                           | 2 x 2W                                                                                                                                                                           |
|                                     | Book Light                        | Support                                                                                                                                                                          |
|                                     | Camera                            | 1x 4K resolution (3840 x 2160) up to 30 fps                                                                                                                                      |
|                                     | TPM 1.2/2.0                       | 2.0                                                                                                                                                                              |
| Power Input                         | DC / AC                           | DC 19V (Medical DC Jack pin)                                                                                                                                                     |
| IP Rating                           | Front Panel                       | IP65                                                                                                                                                                             |
|                                     | System                            | IP54 (I/O with cover) without Battery                                                                                                                                            |
| Authentication Solution (Either or) | RFID Reader                       | Optional (select either RFID or Smart Card Reader)                                                                                                                               |
|                                     | Smart Card Reader                 | Optional (select either RFID or Smart Card Reader)                                                                                                                               |
| Certificate                         | EMC & Safety                      | Medical CE (EN60601-1-2 4th Edition)<br>EN60601-1 Compliance<br>MDR<br>RED<br>ErP                                                                                                |
| Physical Characteristics            | Dimensions (W x H x D)            | 524 x 357 x 59 mm/20.63 x 14.06 x 2.32 in (Standard Model)                                                                                                                       |
|                                     | 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)<br>0 - 50 °C/32 - 122 °F (Storage)                                                                                                              |
|                                     | Humidity                          | 95%, 40°C (Operating)<br>95%, 60°C (Storage)                                                                                                                                     |
|                                     | Shock Resistance                  | 10G peak acceleration (11 ms duration)                                                                                                                                           |
| Warranty                            | System                            | 3 year                                                                                                                                                                           |

## Standard Model Dimensions

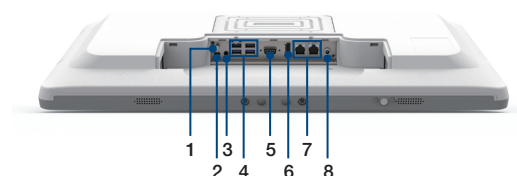
Unit: mm



## Front Function Keys



## I/O Ports



1. Equipotential terminal PIN
2. 1 x Type C
3. Mic in/Headphone out
4. 4 x USB 3.2
5. 1 x COM port (RS232/422)
6. 1 x HDMI
7. 2 x Giggabit Ethernet (Isolation)
8. DC.IN 19V

## Ordering information

| Level   | Part number       | Description                                       | CPU    | DRAM     | Battery | Touch               | SSD      | WIFI & BlueTooth       |
|---------|-------------------|---------------------------------------------------|--------|----------|---------|---------------------|----------|------------------------|
| Medical | POC-421-16D01D-CE | 21.5", 16th, i3, 16G R, 256G, WF6, IP54, Standard | i3 304 | 16G DDR5 | N.A     | AG, Optical bonding | 256G M.2 | WIFI 6 & BlueTooth 5.3 |

### Memory DDR5

| Part number        | Description                           |
|--------------------|---------------------------------------|
| XAP-S5DS8G56TE46C  | TWSC 8GB DDR5 5600 SO-DIMM 1Rx16 0-85 |
| XOG-5DSAG0856CA46C | TWSC 16GB D5 5600 SO-DIMM 2Rx8 0-85   |
| XAP-S5D32G56HB46S  | TWSC 32GB DDR5 5600 SO-DIMM 2Rx8 0-85 |

### M.2 2280 SQF NVME

| Part number        | Description                                |
|--------------------|--------------------------------------------|
| XOG-WAN256D2F1T40W | TWSC 256GB EP1021 M.2 2280 Gen3x4 (-40~85) |
| XMS-IEF512CYFUHW   | TWSC 512GB EP1021 M.2 2280 Gen4x4 (-40~85) |