

# APC-2340

23.8" 12th Gen Intel® Core™ Processor i5/i3 Expandable  
Ultra light Multi-Touch Fanless Panel PC

7/25



## Features

- Sleek light weight design
- 23.8" Full HD PCAP touch Panel PC
- Intel® 12th Gen Alder Lake-P Core™ i5/i3 Processor
- 2 LAN, 4 USB 3.0, 2 DP++
- 1 x M.2 Key B for 4G/5G, 1 x M.2 Key E for WIFI, 1 x M.2 Key M for storage
- Optional Camera, NFC, WiFi
- CE/ FCC/ VCCI/ UKCA



+12V ~ +24V



PCAP  
multi-touch



Fanless



0°C ~ 40°C



Front IP65

## Specifications

### System Information

|                    |                                                                                                                                                                                                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor          | 12th Generation Alder Lake Intel® Core™ i3-1215U Processor (10M Cache, up to 4.40 GHz, with IPU)<br>12th Generation Alder Lake Intel® Core™ i5-1235U Processor (12M Cache, up to 4.40 GHz, with IPU) |
| System Memory      | 2 x 262-pin DDR5 4800 MHz SO-DIMM Supports Up to 64GB (Non ECC Only)                                                                                                                                 |
| I/O Chipset        | EC ITE IT5782VG                                                                                                                                                                                      |
| Watchdog Timer     | H/W reset, 1sec. ~ 65535sec. and 1sec./step                                                                                                                                                          |
| H/W Status Monitor | CPU Temperature Monitoring<br>Voltage Monitoring<br>CPU Fan Speed Control                                                                                                                            |
| TPM                | 2.0                                                                                                                                                                                                  |
| SBC                | EMX-ADLP-B1 A1 i3-1215U<br>EMX-ADLP-B1 A1 i5-1235U                                                                                                                                                   |

### Expansion

|           |                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------|
| Expansion | 1 x M.2 Key B 3042/3052 for 4G/5G<br>1 x M.2 Key E 2230 support WiFi module<br>802.11abgn+acR2+axR2 Wi-Fi 6E BT5.2 |
|-----------|--------------------------------------------------------------------------------------------------------------------|

### Storage

|                      |                                                |
|----------------------|------------------------------------------------|
| Solid State Drive    | 2.5" SATA3 SSD                                 |
| Other Storage Device | 1 x M.2 Key M 2280 (PCI-e x4) slot for storage |

### Audio

|                |                       |
|----------------|-----------------------|
| Audio Codec    | RealTek ALC888S-VD2-G |
| Speaker Output | 2 x 2W                |

### Power Requirement

|                    |                       |
|--------------------|-----------------------|
| DC Input           | +12V ~ +24V           |
| DC Input Connector | Lockable PWR DIN Plug |
| Power Mode         | ATX / AT              |

### Software Support

|    |               |
|----|---------------|
| OS | Win11 / Linux |
|----|---------------|

### Certification

|                           |                           |
|---------------------------|---------------------------|
| Certification Information | CE/ FCC class B/VCCI/UKCA |
|---------------------------|---------------------------|

### Panel

|                  |                                                   |
|------------------|---------------------------------------------------|
| LCD Size         | 23.8"                                             |
| Display Type     | Full HD                                           |
| Resolution       | 1920 x 1080                                       |
| Pixel Pitch      | 274.5mm x 274.5mm                                 |
| Luminance        | 250 cd/m²                                         |
| Contrast Ratio   | 3000                                              |
| Viewing Angle    | 89 (U), 89 (D), 89 (L), 89 (R)                    |
| Response Time    | 16ms                                              |
| Backlight        | LED                                               |
| Touch Type       | Projective capacitive multi-touch up to 10 points |
| Touch Controller | EETI EXC81H5680                                   |

### External I/O

|                      |                                                                              |
|----------------------|------------------------------------------------------------------------------|
| USB Port             | 2 x USB 3.2 Gen2 (USB1)<br>2 x USB 3.0 Gen2 (USB2)                           |
| LAN Port             | 1 x Intel® I219LM Gigabit Ethernet PHY<br>1 x Intel® I226LM Gigabit Ethernet |
| Wireless LAN Antenna | 2 x PCB Antenna                                                              |
| Display Port         | 2 x DP++                                                                     |

### Data Communication

|           |                                                                 |
|-----------|-----------------------------------------------------------------|
| WLAN      | Optional Wi-Fi + Bluetooth 5.0 USB Module, Intel Wi-Fi 6E AX210 |
| Bluetooth | Optional Wi-Fi + Bluetooth 5.0 USB Module, Intel Wi-Fi 6E AX210 |

### Mechanical & Environmental

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Operating Temp.       | 0°C ~ 40°C (32°F ~ 104°F)                              |
| Storage Temp.         | -10°C ~ 60°C (14°F ~ 140°F)                            |
| Operating Humidity    | 40°C @ 95% Relative Humidity, Non-condensing           |
| Dimension (W x L x H) | 592 x 382 x 49.5mm                                     |
| Weight                | 6.2 kg                                                 |
| Vibration Test        | 1.5Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 30min/axis |
| Shock Test            | 10Grms, IEC 60068-2-27, half sine, 11ms                |
| IP Rating             | Front IP65                                             |
| Mounting Kit          | VESA 75 x 75, 100 x 100                                |
| Construction - Front  | Plastic - black                                        |
| Construction - Rear   | Plastic - black                                        |

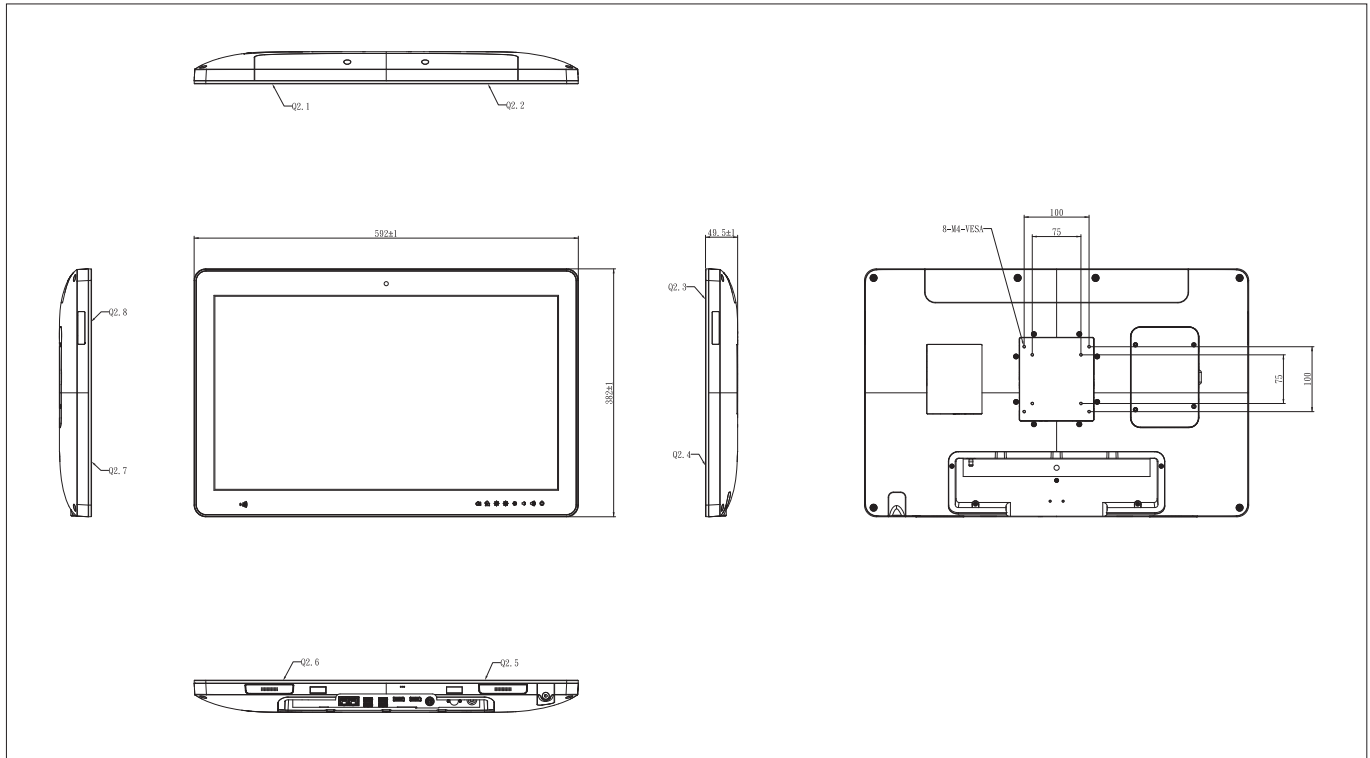
### Component

|         |                                      |
|---------|--------------------------------------|
| Adapter | AC/DC adapter 24V/3.75A PWR DIN Plug |
|---------|--------------------------------------|

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## Mechanical Drawing



## Ordering Information

| P/N              | Touch Type | Processor | Memory | Storage | Resolution  | Luminance | COM | USB | LAN | Power Input | Working Temp. | OS Support    |
|------------------|------------|-----------|--------|---------|-------------|-----------|-----|-----|-----|-------------|---------------|---------------|
| APC-2340-121-A1R | PCAP       | i3-1215U  | 8GB    | N/A     | 1920 x 1080 | 250       | 0   | 4   | 2   | +12V ~ +24V | 0°C ~ 40°C    | Win11 / Linux |
| APC-2340-123-A1R | PCAP       | i5-1235U  | 8GB    | N/A     | 1920 x 1080 | 250       | 0   | 4   | 2   | +12V ~ +24V | 0°C ~ 40°C    | Win11 / Linux |

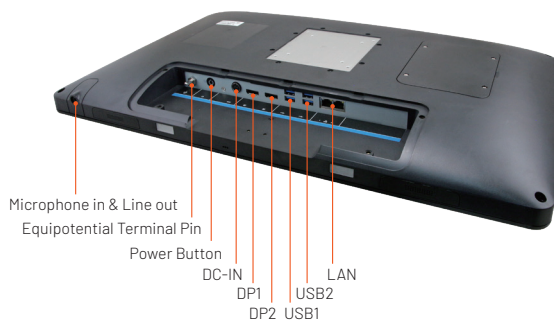
## Packing List

| Item              | Quantity |
|-------------------|----------|
| APC-2340 Panel PC | 1        |
| Power Adapter     | 1        |

## Optional Items

| Item          | P/N           |
|---------------|---------------|
| EU Power Cord | E170203183DR  |
| US Power Cord | E1702031835R  |
| JP Power Cord | E17120318001R |
| UK Power Cord | E170P060370R  |

## I/O Overview



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