

# W24IT7T-POA2

24'' Intel® Core™ i5 (Tiger Lake) PO Series HMI Panel PC



## KEY FEATURES

- Intel® Core™ Tiger Lake UP3 i5-1135G7 (Without vPro) / Intel® Core™ Tiger Lake UP3 i5-1145G7E (With vPro)
- 1920 x 1080 Resolution
- Projected capacitive multi-touch screen
- Multi display supports DP / HDMI / LVDS / eDP panel interface
- Multiple I/Os, 2 x Serial Ports, 4 x USB 3.2 Gen. 1 Ports
- Front IP65 water and dust proof
- 12V Single Voltage Power Input

## INTRODUCTION

Winmate PO Series HMI offers a versatile solution for industrial automation and kiosk applications, with sizes ranging from 7" to 27". Featuring Intel® processors, a slim-line open-frame design, and a flat multi-touch PCAP display, it delivers sleek aesthetics and advanced functionality. With certifications for rugged environments and options like dual Gigabit Ethernet and IP65-rated front protection, this HMI is ideal for interactive kiosks, process control, and smart manufacturing, ensuring reliable performance and seamless integration.

## SPECIFICATIONS

| Display              |                                                                                                                                                                     |                     |                                                                                                                                                                                                                  |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resolution           | 1920x1080                                                                                                                                                           | Size                | 23.8 inches                                                                                                                                                                                                      |
| Contrast Ratio       | 3000:1                                                                                                                                                              | Panel Brightness    | 250.0 nits                                                                                                                                                                                                       |
| View Angles          | 89,89,89,89                                                                                                                                                         | Active Area         | 527.04x296.46 mm                                                                                                                                                                                                 |
| Touch / Glass        | Projected Capacitive Multi Touch Screen                                                                                                                             |                     |                                                                                                                                                                                                                  |
| System Specification |                                                                                                                                                                     |                     |                                                                                                                                                                                                                  |
| WLAN                 | Support (Optional)                                                                                                                                                  | BT                  | Support (Optional)                                                                                                                                                                                               |
| Processor            | Intel Core i5-1135G7 2.4GHz (up to 4.2GHz)                                                                                                                          | Memory              | 1 x SO-DIMM, DDR4 3200 MHz, 4GB<br>8GB (Optional)<br>16GB (Optional)<br>32GB (Optional)<br>2 x SO-DIMM, DDR4 3200 MHz, 4GB (Optional)<br>8GB (Optional)<br>16GB (Optional)<br>32GB (Optional)<br>64GB (Optional) |
| Storage              | 1 x M.2 M-Key 2280 NVMe SSD 128GB<br>256GB (Optional)<br>512GB (Optional)<br>1TB (Optional)<br>2TB (Optional)<br>1 x SATA III for 2.5" SSD/HDD up to 2TB (Optional) | Ethernet controller | 2 x Intel® Ethernet Controller                                                                                                                                                                                   |
| Security             | TPM 2.0                                                                                                                                                             | Operating System    | Windows 11 IoT Enterprise (64 bit) (Optional)<br>Windows 11 Pro 64 bit (Optional)<br>Linux Ubuntu 22.04(Do not support Wake on Touch) (Optional)                                                                 |

Mechanical

|                |                                         |           |               |
|----------------|-----------------------------------------|-----------|---------------|
| Dimension      | 615 x 385 x 69 mm                       | Weight    | 6.3 kg        |
| Mounting       | Open Frame<br>Panel Mount<br>VESA Mount | Enclosure | Metal Housing |
| Cooling System | Fanless design                          |           |               |

Environment

|                     |                               |                       |             |
|---------------------|-------------------------------|-----------------------|-------------|
| Operating Humidity  | 10% to 90% RH, Non-Condensing | Operating Temperature | 0°C to 50°C |
| Storage Temperature | -10°C to 60°C                 |                       |             |

Certification

|               |         |
|---------------|---------|
| Certification | CE, FCC |
|---------------|---------|

IO Ports

|                 |                                                                |                |                                                                                                                             |
|-----------------|----------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------|
| Power Input     | 1 x 12V DC, Din4 pin connector                                 | USB Port       | 4 x USB3.2 Gen2x1 (Type-A)                                                                                                  |
| Serial Port     | 1 x RS232/422/485 (Default RS232)<br>1 x RS232                 | Video          | 1 x DP1.4<br>1 x HDMI 2.0 (Optional)                                                                                        |
| Audio           | Mic in<br>Line out                                             | Expansion Port | 1 x M.2 2280 M-Key Slot (for NVME SSD)<br>1 x M.2 2230 E-Key Slot (for Wi-Fi module)<br>1 x PCIe 4.0 (x16) slot (x4 signal) |
| LAN             | 1 x Giga LAN RJ45 Connector<br>1 x 2.5 Giga LAN RJ45 Connector | Indicator      | 1 x LED Indicator for power<br>1 x LED Indicator for storage                                                                |
| Brightness Knob | 1 x Brightness Adjustment Knob                                 |                |                                                                                                                             |

Control

|        |                                      |
|--------|--------------------------------------|
| Button | 1 x Power Button<br>1 x Reset Button |
|--------|--------------------------------------|

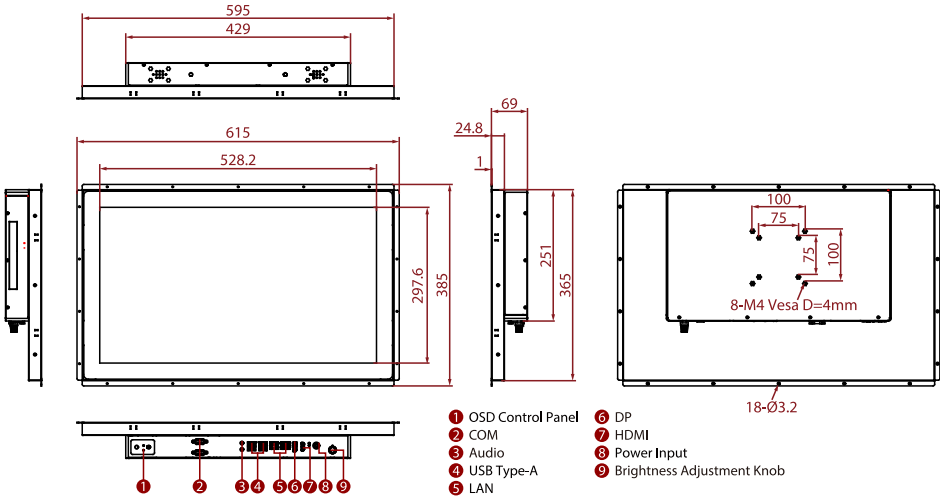
Accessory

|           |                                                        |
|-----------|--------------------------------------------------------|
| Accessory | 100~240V AC to DC Adapter<br>Power Cord<br>VESA screws |
|-----------|--------------------------------------------------------|

Power

|              |        |         |          |
|--------------|--------|---------|----------|
| Power Rating | 12V DC | Adapter | 12V 120W |
|--------------|--------|---------|----------|

DIMENSIONS UNIT:MM



**NOTE**

1. This is a simplified drawing and some components are not marked in detail.

2. Please contact our sales representative if you need further product information.

3. All specifications are subject to change without prior notice.

4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.