

# W24IAD7T-OFA2

24" Intel® Core™ i9/i7/i5/i3 (Alder Lake S) Open Frame Panel PC



## KEY FEATURES

- 24" 1920 x 1080 Resolution Open Frame PC
- 12th Gen Intel® Core™ Alder Lake S i9 / i7/ i5 / i3 processor
- 2 x SODIMM, DDR5 4800MHz, support up to 64GB (Max. 32GB for each slot)
- Integrated Dual 2.5 Gigabit Ethernet
- Multi display supports DP 1.4a / HDMI 2.0b (Optional)
- Multiple I/Os, 4 x USB 3.2 Gen2x1, 2 x Serial Ports
- 12 V DC Power input

## INTRODUCTION

Winmate Open Frame Panel PC Series delivers versatility and performance for diverse industrial applications. Available in sizes from 5.7" to 24", these wide, rectangular panel PCs support multiple operating systems and advanced processors for seamless integration. Featuring resistive and PCAP touch options, they offer precise and intuitive operation. The open-frame design ensures easy installation into cabinets or kiosks, making them ideal for factory automation, retail, and interactive digital signage.

## SPECIFICATIONS

| Display              |                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Resolution           | 1920x1080                                                                                                                                                                                                                                                                                                                                                                                                       | Size             | 24.0 inches                                                                                                                           |
| Contrast Ratio       | 3000:1                                                                                                                                                                                                                                                                                                                                                                                                          | Panel Brightness | 250.0 nits                                                                                                                            |
| View Angles          | 89,89,89,89                                                                                                                                                                                                                                                                                                                                                                                                     | Active Area      | 527.04x296.46 mm                                                                                                                      |
| Touch / Glass        | Resistive Touch Screen (Optional)<br>Protection Glass Without Touch Function (Optional)                                                                                                                                                                                                                                                                                                                         |                  |                                                                                                                                       |
| System Specification |                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                       |
| WLAN                 | Support (Optional)                                                                                                                                                                                                                                                                                                                                                                                              | BT               | Support (Optional)                                                                                                                    |
| Processor            | Intel® Core™ i3-12100TE(up to 4.00GHz)<br>Intel® Core™ i5-12500TE(up to 4.3GHz) (Optional)<br>Intel® Core™ i7-12700TE(up to 4.6GHz) (Optional)<br>Intel® Core™ i9-12900TE(up to 4.80GHz) (Optional)<br>Intel® Core™ i3-14100T(up to 4.4GHz) (Optional)<br>Intel® Core™ i5-14500T(up to 4.8GHz) (Optional)<br>Intel® Core™ i7-14700T(up to 5.2GHz) (Optional)<br>Intel® Core™ i9-14900T(up to 5.5GHz) (Optional) | Chipset          | Intel® R680E                                                                                                                          |
| Memory               | 2 x SO-DIMM, DDR5 4800 MHz, 8GB<br>16GB (Optional)<br>32GB (Optional)<br>64GB (Optional)                                                                                                                                                                                                                                                                                                                        | Storage          | 1 x M.2 2280 M-Key NVMe SSD 256GB<br>512GB (Optional)<br>1TB (Optional)<br>2TB (Optional)<br>2 x SATA III for 2.5" SSD/HDD (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      | 576 x 344 x 78 mm                                             | Weight    | 6.3 kg        |
| Mounting       | Open frame<br>Panel mount (Optional)<br>VESA mount (Optional) | Enclosure | Metal Housing |
| Cooling System | Fan 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 USB 3.2 Gen2x1 (10Gbps, TypeA)                                                                                      |
| Serial Port | 1 x RS232/422/485 (Default RS232)<br>1 x RS232 | Video          | 1 x DP1.4a DP++ , Max resolution up to 4096x2160@60Hz<br>1 x HDMI 2.0b , Max resolution up to 4096x2160@60Hz (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)                                    |
| LAN         | 2 x 2.5 Giga LAN RJ45 Connector                |                |                                                                                                                         |

Control

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

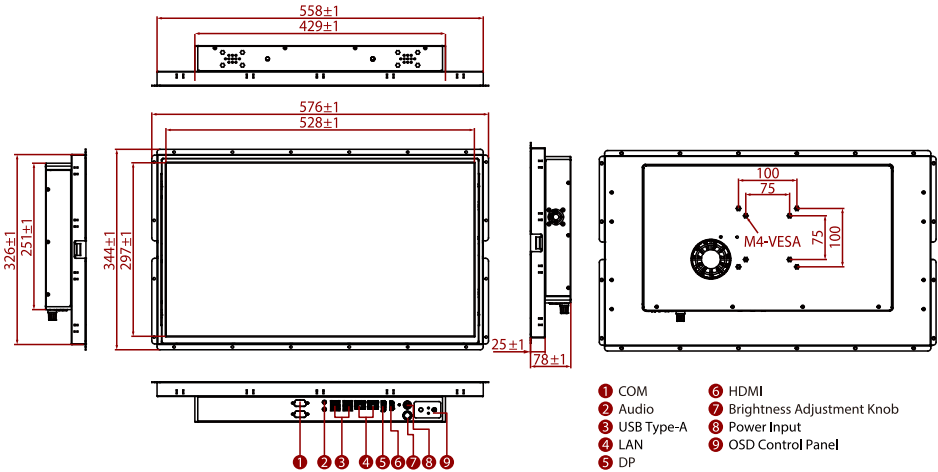
Accessory

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

Power

|              |        |         |          |
|--------------|--------|---------|----------|
| Power Rating | 12V DC | Adapter | 12V 220W |
|--------------|--------|---------|----------|

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.