

W27IAD7T-GPA1

27" Edge AI Panel PC with Intel® Alder Lake S / Raptor Lake S Processor



KEY FEATURES

- 27", 1920 x 1080 resolution with P-CAP touchscreen
- Supports Intel® 12/14th generation Alder LakeS/Raptor Lake S processor
- Supports single NVIDIA RTX™ A2000 / T1000 GPU
- Supports Intel® vPro
- Up to 2 x 262pin SODIMM DDR5 4800MHz up to 64GB(32GB per Slot)
- 2 x Intel 2.5 Gigabit LAN, 4 x USB3.2 Gen 2x1
- Supports Two display, 1 x HDMI 2.0, 1 x DP 1.4a
- 90 ~ 264 VAC Power Input with 3 Pin AC Plug

INTRODUCTION

Winmate Edge AI Panel PC Series delivers high-performance computing and advanced AI capabilities, designed for demanding applications in factory automation, AIoT, and professional visualization. Available in sizes from 19" to 32", these PCs feature Intel® 12th/14th Gen processors, NVIDIA RTX™ A2000/T1000 GPUs, and up to 64GB DDR5 RAM. With multi-touch P-CAP screens, dual 2.5 Gigabit LAN for fast connectivity, and dual display support via HDMI and DP, this series ensures seamless data processing and visualization. Built with durability and efficiency, it's ideal for AI-driven workflows and real-time data analysis.

OVERVIEW

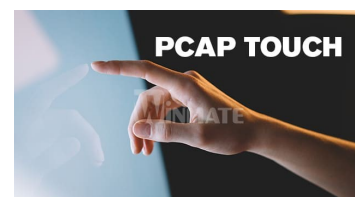


State-of-the-art Intel platform

Winmate's AI panel PC is backed by the advanced Intel vPro platform, seamlessly merging robust capabilities. It integrates AI-powered security features supported by Intel® Threat Detection Technology, ensuring efficient threat detection. With this innovation, users experience a harmonious fusion of heightened security and productivity, marking a milestone in computing excellence.

Effortless Interaction via P-Cap Touch

The glass cover lens ensures robust scratch protection, while P-Cap Touch enables intuitive 4-point multi-touch control, enhancing interaction pleasure and simplifying device usage, ultimately elevating the overall customer experience.





AI Analysis Enhanced by NVIDIA GPU

The AI panel pc from Winmate utilizes the new NVIDIA T1000 graphics cards to deliver the expected performance, features, and reliability of NVIDIA professional visualization solutions in a compact yet powerful form factor. Additionally, the AI panel PC adopts A2000 graphics cards as well, optimized for professional tasks like 3D rendering and video editing, with features like real-time ray tracing and AI-enhanced graphics.

Newest DDR5 Memory Card

Opt for the newest DDR5 memory in the Winmate W27IAD7T-GPA1 AI Panel PC to experience robust startup speed and improved efficiency, leading to extended battery life and operational benefits.



Fast Connectivity by GigaLAN Port

The Winmate Edge AI Panel PC comes with two 2.5 Gigabit LAN ports, enabling swift data and image transfers with speeds ranging from 10 to 1000 Mbps. Tailored for factory automation and AIoT applications, it boosts productivity by reducing latency and improving response times, guaranteeing smooth connectivity for streamlined task handling.

SPECIFICATIONS

Display			
Resolution	1920x1080	Size	27.0 inches
Contrast Ratio	3000:1	Panel Brightness	300.0 nits
View Angles	89,89,89,89	Active Area	597.6x336.15 mm
Touch / Glass	Projected Capacitive Multi Touch Screen		
System Specification			
Processor	Intel® Core™ i7-12700TE(up to 4.6GHz) Intel® Core™ i9-12900TE(up to 4.80GHz) (Optional) Intel® Core™ i7-14700T(up to 5.2GHz) (Optional) Intel® Core™ i9-14900T(up to 5.5GHz) (Optional)	Chipset	Intel® R680E
Memory	SO-DIMM, DDR5 4800 MHz, 8+8GB 16+16GB (Optional) 32+32GB (Optional)	Storage	1 x M.2 2280 M-Key NVMe SSD, 512GB 1TB (Optional) 2TB (Optional)
Ethernet controller	2 x Intel® 2.5 Gigabit Ethernet Controller	Security	TPM 2.0
Operating System	Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Linux Ubuntu 22.04(Do not support Wake on Touch) (Optional)	WLAN	Support (Optional)
BT	Support (Optional)	AI Accelerator	Hailo 8™ AI accelerator module, up to 26 TOPS(When using this feature, WLAN will not be supported) (Optional)
Graphic Card	NVIDIA® RTX A4000 16GB Graphic Card (Optional) NVIDIA® RTX A2000 12GB Graphic Card (Optional) NVIDIA® T1000 8GB Graphic Card (Optional)		
Mechanical			
Dimension	675.4 x 413.4 x 67.9 mm	Weight	10.2 kg
Mounting	VESA mount	Enclosure	Metal Housing
Cooling System	Fan Design		
Environment			
Operating Humidity	10% to 90% RH, Non-Condensing	Operating Temperature	0°C to 55°C
Storage Temperature	-10°C to 60°C	IP rating	Front IP65
Certification			
Certification	CE, FCC		
IO Ports			
Power Input	1 x 3 Pin AC Plug	USB Port	4 x USB 3.2 Gen2x1 (10Gbps, TypeA)
Serial Port	1 x RS232/422/485 (Default RS232)	Video	1 x DP1.4a DP++ , Max resolution up to 4096x2160@60Hz 1 x HDMI 2.0b , Max resolution up to 4096x2160@60Hz (Optional)
Audio	Mic in Line out	Expansion Port	1 x M.2 2280 M-Key Slot (for NVMe SSD) 1 x M.2 2230 E-Key Slot (for Wi-Fi module or Hailo 8™ AI accelerator module) 1 x PCIe 5.0 (x16) slot
LAN	2 x 2.5 Giga LAN RJ45 Connector	Indicator	1 x LED Indicator for power 1 x LED Indicator for storage
Control			

Button	1 x AC Power Switch 1 x Power Button 1 x Clear CMOS Button 2 x Reset Button
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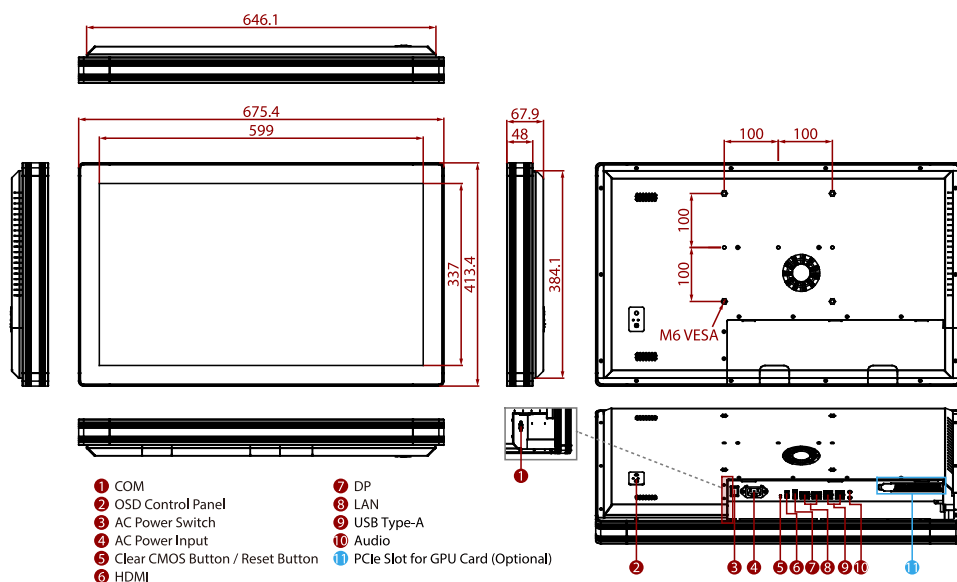
Accessory

Accessory	Power Cord VESA screws
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Power

Power Rating	90 ~ 264VAC	Consumption	500W
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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.