

W22IAD7T-GPA3

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



CE

FC

KEY FEATURES

- 21.5", 1920 x 1080 resolution with P-CAP touchscreen
- Supports Intel® 12/14th generation Alder Lake S / Raptor Lake S processor
- Supports single NVIDIA RTX™ 2000 Ada / RTX™ A1000 GPU Card
- 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
- 80 ~ 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.

SPECIFICATIONS

Display			
Resolution	1920x1080	Size	21.5 inches
Contrast Ratio	3000:1	Panel Brightness	250.0 nits
View Angles	89,89,89,89	Active Area	476.64x268.11 mm
Touch / Glass	Projected Capacitive Multi Touch Screen		
System Specification			
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 4000 Ada 20 GB Graphic Card (Optional) NVIDIA® RTX 4000 SFF Ada 20GB Graphic Card (Optional) NVIDIA® RTX 2000 Ada 16GB Graphic Card (Optional) NVIDIA® A1000 8GB Graphic Card (Optional)
Processor	Intel® Core™ i5-12500TE Processor 18M Cache, up to 4.30 GHz Intel® Core™ i7-12700TE Processor 25M Cache, up to 4.60 GHz (Optional) Intel® Core™ i9-12900TE Processor 30M Cache, up to 4.80 GHz (Optional) Intel® Core™ i5 processor 14500T 24M Cache, up to 4.80 GHz (Optional) Intel® Core™ i7 processor 14700T 33M Cache, up to 5.20 GHz (Optional) Intel® Core™ i9 processor 14900T 36M Cache, up to 5.50 GHz (Optional)	Chipset	Intel® R680E

Memory	2 x SO-DIMM, DDR5 4800 MHz, 8GB 16GB (Optional) 32GB (Optional) 64GB (Optional)	Storage	1 x M.2 2280 M-Key NVMe SSD, 256GB 512GB (Optional) 1TB (Optional) 2TB (Optional) 4TB (Optional)
Ethernet controller	2 x Intel® Ethernet Controller	Security	TPM 2.0
Operating System	Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Linux Ubuntu 24.04(Do not support Wake on Touch) (Optional)		

Mechanical

Dimension	530.2 x 321.7 x 70.5 mm	Weight	7.0 kg
Mounting	Panel mount VESA mount (Optional)	Enclosure	Metal Housing
Cooling System	Fan Design	Cut out	473 x 280 mm

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
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IO Ports

Power Input	1 x 3 Pin AC Plug	USB Port	4 x USB 3.2 Gen2x1 (10Gbps, TypeA)
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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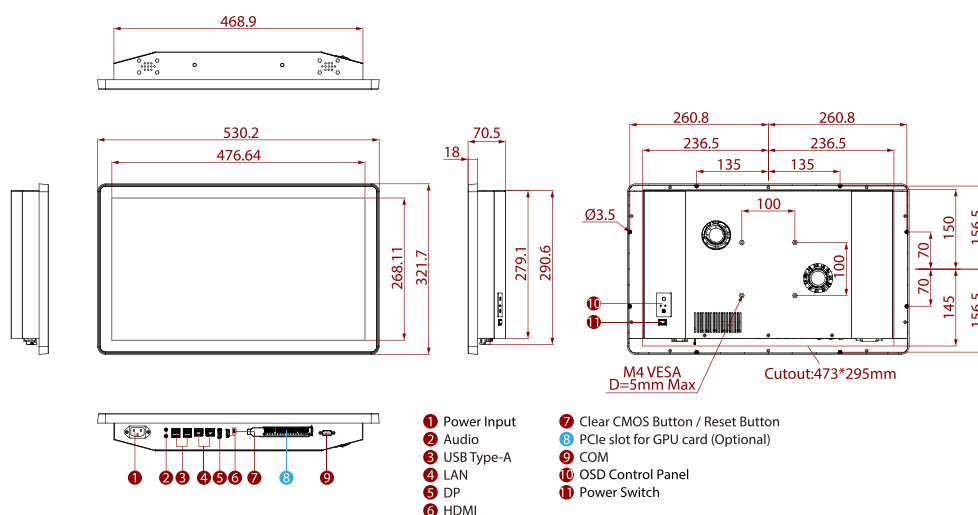
Accessory

Accessory	Power Cord VESA screws Mounting screws
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Power

Power Rating	80 ~ 264VAC	Consumption	400W
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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.