

W27IAD7T-GPA1

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



CE

FC

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™ 4000 SFF Ada/ RTX™ 4000E Ada / RTX™ 2000E Ada / RTX™ A1000 GPU Card
- Supports Intel® vPro
- 2 x SO-DIMM RAM, up to 64GB (32GB per DIMM)
- 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 W27IAD7T-GPA1 is a 27-inch Edge AI Panel PC with Intel® Alder Lake S / Raptor Lake S Processor engineered for machine vision, edge AI inference, and industrial automation. It combines 27-inch display with 1920x1080 resolution, 27", 1920 x 1080 resolution with P-CAP touchscreen, and Supports Intel® 12/14th generation Alder LakeS/Raptor Lake S processor to support reliable operation in harsh industrial environments. With Supports single NVIDIA RTX™ 4000 SFF Ada/ RTX™ 4000E Ada / RTX™ 2000E Ada / RTX™ A1000 GPU Card, the W27IAD7T-GPA1 helps OEMs, system integrators, and project teams deploy durable...

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

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 4000E Ada 20 GB Graphic Card (Optional) NVIDIA® RTX 2000E Ada 16GB Graphic Card (Optional) NVIDIA® A1000 8GB Graphic Card (Optional)
Processor	Intel® Core™ i5-12500TE Processor 18M Cache, up to 4.30 GHz (Default) 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 non-ECC SO-DIMM RAM, up to 64GB (32GB per DIMM)	Storage	128GB SSD(Default) (Default) 256GB SSD (Optional)

		512GB SSD (Optional) 1TB (Optional) 2TB (Optional) 4TB Raid 0,1 support (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	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
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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 (Default) 1 x HDMI 2.0b , Max resolution up to 4096x2160@60Hz (Optional)
Audio	Mic in Line out	Expansion Port	1 x M.2 2230 E-Key Slot (for Wi-Fi module)
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 1 x Reset Button
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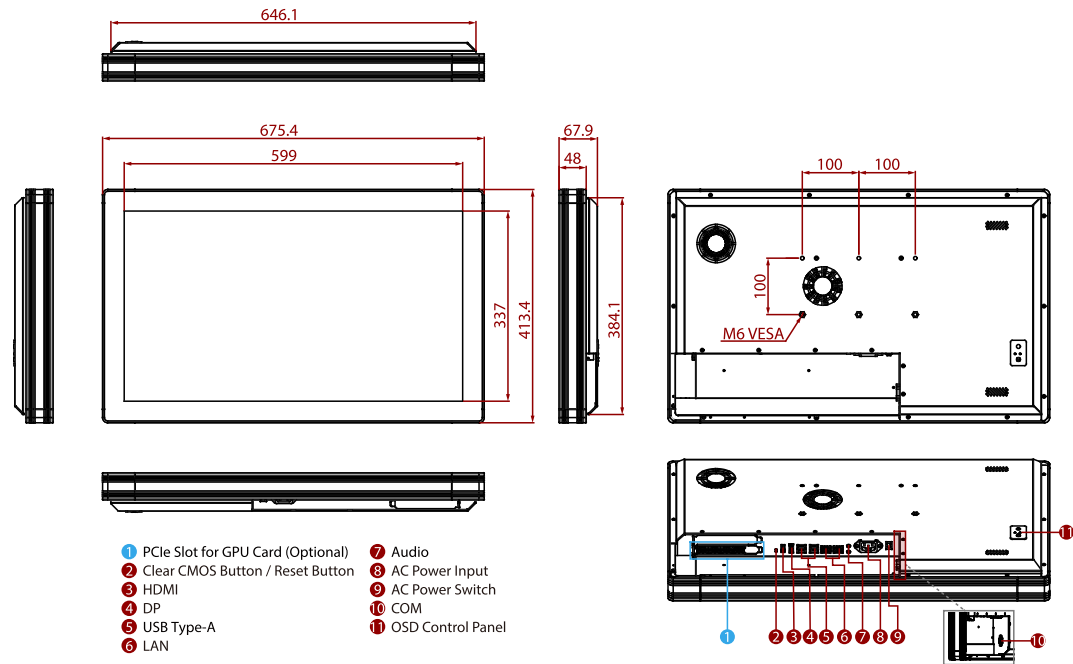
Accessory

Accessory	Power Cord VESA screws
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Power

Power Rating	90 ~ 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.