



W27IAD7T-GPA1 27" Edge AI Panel PC with Intel(R) Alder Lake S / Raptor Lake S Processor

Manufacturer part number: W27IAD7T-GPA1 | Edge AI Panel PCs



Explore Winmate W27IAD7T-GPA1, an edge AI computer featuring 27-inch display with 1920x1080 resolution for machine vision and edge AI inference.

Display	
Size	27.0 inches
Touch / Glass	Projected Capacitive Multi Touch Screen
Resolution	1920x1080
Panel Brightness	300.0 nits
Contrast Ratio	3000:1
View Angles	89,89,89,89
Active Area	597.6x336.15 mm
System Specification	
Processor	Intel(R) Core(TM) i5-12500TE Processor 18M Cache, up to 4.30 GHz (Default), Intel(R) Core(TM) i7-12700TE Processor 25M Cache, up to 4.60 GHz (Optional), Intel(R) Core(TM) i9-12900TE Processor 30M Cache, up to 4.80 GHz (Optional), Intel(R) Core(TM) i5 processor 14500T 24M Cache, up to 4.80 GHz (Optional), Intel(R) Core(TM) i7 processor 14700T 33M Cache, up to 5.20 GHz (Optional), Intel(R) Core(TM) i9 processor 14900T 36M Cache, up to 5.50 GHz (Optional)
Chipset	Intel(R) R680E
Memory	2 x non-ECC SO-DIMM RAM, up to 64GB (32GB per DIMM)
Storage	128GB SSD(Default), 256GB SSD (Optional), 512GB SSD (Optional), 1TB (Optional), 2TB (Optional), 4TB, Raid 0,1 support (Optional)
Ethernet controller	2 x Intel(R) 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)
WLAN	Support (Optional)
BT	Support (Optional)
AI Accelerator	Hailo 8(TM) AI accelerator module, up to 26 TOPS(When using this feature, WLAN will not be supported) (Optional)
Graphic Card	NVIDIA(R) RTX 4000E Ada 20 GB Graphic Card (Optional), NVIDIA(R) RTX 2000E Ada 16GB Graphic Card (Optional), NVIDIA(R) A1000 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 deg C to 55 deg C
Storage Temperature	-10 deg C to 60 deg C
IP rating	Front IP65
Certification	
Certification	CE, FCC
IO Ports	
USB Port	4 x USB 3.2 Gen2x1 (10Gbps, TypeA)
Serial Port	1 x RS232/422/485 (Default RS232)
LAN	2 x 2.5 Giga LAN RJ45 Connector
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)
Indicator	1 x LED Indicator for power, 1 x LED Indicator for storage
Power Input	1 x 3 Pin AC Plug
Control	
Button	1 x AC Power Switch, 1 x Power Button, 1 x Clear CMOS Button, 1 x Reset Button
Accessory	
Accessory	Power Cord, VESA screws
Power	
Power Rating	90 ~ 264VAC
Consumption	400W