

APPLIED INTELLIGENCE

APEX SERIES



APEX-P100

HIGHLIGHT FEATURES



Intel-Based AI System with NVIDIA RTX 5000 Ada Accelerator

- Supports 9,728 CUDA Cores, 304 Tensor Cores, and 76 RT Cores with 16GB GDDR6 memory for factory AOI and AI medical imaging recognition.
- Intel 13th Gen Core i7 CPU, 32GB DDR5 DRAM and 512GB NVMe SSD are pre-installed.

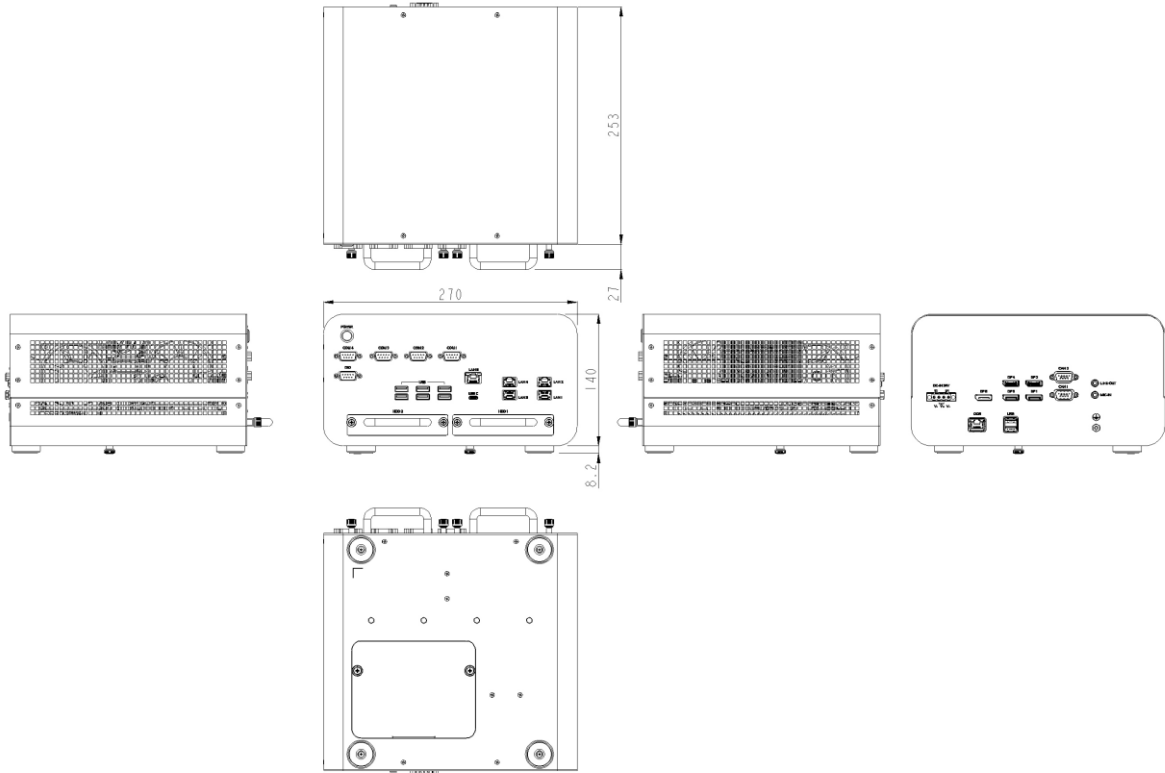
SPECIFICATIONS

Platform	Intel CPU	Core i7-13700E
	Cores (P+E+LPE)	16C (8P + 8E)
	Threads	24
	Max. Frequency	5.1GHz
	Cache	24MB
	CPU TDP	65W
	BIOS	AMI UEFI 256Mbit
AI Accelerator	AI Engine	NVIDIA RTX 5000 Ada
	Form Factor (Interface)	MXM graphics module version 3.1, Type B (PCIe Gen 4 x 16)
	Cores	9,728 x NVIDIA Ada Lovelace architecture-based CUDA Cores 304 x NVIDIA fourth-generation Tensor Cores 76 x NVIDIA third-generation RT Cores
	GPU memory	16GB GDDR6 (w/ECC)
Memory	Technology / Socket	DDR5 5200MHz / 2 x 262pin DDR5 SO-DIMM
	Max. Capacity	up to 64GB (2 x 16GB, total 32GB pre-installed)
Graphics	Controller	Intel UHD Graphics 770
	Graphic Engine	Hardware encode: 8K30 or 5K60 8b/10b 4:2:0 HEVC/VP9/SCC Hardware decode: 8K60 12b 4:2:0 HEVC/VP9/SCC; 8K30 10b 4:2:0 AV1
Displays	DP++ 1.4 (4K@60Hz)	5
Ethernet	LAN (Intel I226 2.5Gbps)	5
Expansion Slots	M.2 2280 M Key	2 x (PCIe Gen 4 x4 / SATAIII), 512GB M.2 SSD pre-installed
	MXM Type B / B+	1 x (PCIe Gen4 x16), NVIDIA RTX 5000 Ada pre-installed
External I/O	COM1	RS232/422/485
	COM2	RS232/422/485
	COM3	RS232/422/485
	COM4	RS232/422/485
	USB 3.2 Gen 2x2 (20Gbps) Type C	1
	USB 3.2 Gen 2 (10Gbps)	6
	USB 2.0	2
	Buttons	1 x Power (with LED)
	Audio (Realtek ALC888S)	Mic-in x 1, Line-out x 1
	GPIO/ DIO	7-bit (by BIOS selection)
Internal I/O	SATA	2 x 2.5" SATA III SSD / HDD
	CAN Bus	2 x CAN Bus-Isolation 2.0B (optional by MOQ)
Power	Power Input Voltage	DC 24V
	Power Consumption	24V@19.8A (with i7-13700E/ 512GB SSD/ 32GB DRAM/ NVIDIA RTX 5000 Ada)
	Power Connector Type	4 pin terminal block
Environment	Operating Temperature	0°C~50°C (with NVIDIA RTX 5000 Ada)
	Storage Temperature	-40°C~85°C
	Operating Humidity	5~95% Relative humidity, non-condensing

Environment	Operating Vibration	With SSD: 3 Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1hr/axis (operation, without AI accelerator)
	Operating Shock	With SSD: 30 Grms, IEC 60068-2-27, half sine, 11ms duration (operation, without AI accelerator)
Watchdog Timer	Interval	Programmable from 1 to 255 Seconds
Security	TPM 2.0	dTPM2.0 (Hardware, Infineon:SLM9670AQ2.0)
	Out-of-band (OOB)	1 x InnoAgent (RJ45)
Physical Characteristics	Dimension L x W x H (mm)	280 x 270 x 148.2
	Net Weight / Gross Weight (KG)	5.7 / 8
	Mount	Wall Mount
Operating System	Linux Ubuntu 22.04	
	Microsoft Windows 10 IoT Enterprise	2021 LTSC
Regulation	Safety	CE / FCC

ORDER INFORMATION

Part No.	Intel CPU	NVIDIA GPU	COM	LAN	USB	SATA	Display	Storage	Memory	M.2	Operating Temp.
APEX-P100-A00	Core i7-13700E	RTX 5000 Ada	4	5	9	2	5	512GB	32GB	2 (M)	0°C~50°C



PACKING LIST

Part Number	Description	Q'ty
APEX-P100-A00	APEX-P100-A00 System	1
	600W -40~70°C Adapter	1
	AC Power Cable, 300mm	1
	DC Power Cable, 1000mm	1
	2.5" SSD Screw	2

OPTIONAL ACCESSORIES

P/N	Description
7W8000000070	Power Cord, Standards (UK), 1.8m
7W8000000080	Power Cord, Standards (EU), 1.8m
7W8000000090	Power Cord, Standards (US), 1.8m

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