

# APPLIED INTELLIGENCE APEX SERIES

innodisk

## APEX-P100

### HIGHLIGHT FEATURES

#### Intel-Based AI System with NVIDIA RTX 5000 Ada Accelerator

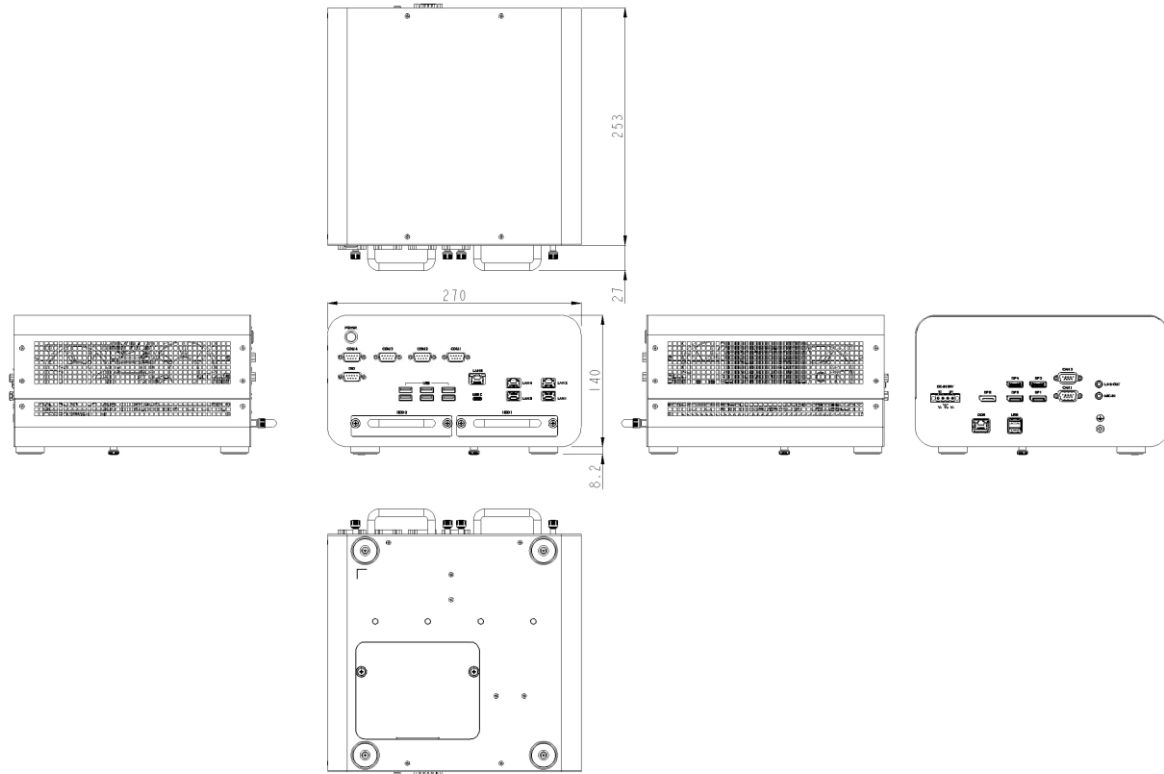
- Support 9,728 CUDA Cores, 304 Tensor Cores, 76 RT Core w/ 16GB GDDR6 memory for factory AOI · AI medical imaging recognition
- Intel 13th Gen Core i7 CPU · 32GB DDR5 and 512GB NVMe SSD are pre-installed



### SPECIFICATIONS

<b>Platform</b>	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
<b>AI Accelerator</b>	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)
<b>Memory</b>	Technology / Socket	DDR5 5200MHz / 2 x 262pin DDR5 SO-DIMM
	Max. Capacity	up to 64GB (2 x 16GB, total 32GB pre-installed)
<b>Graphics</b>	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
<b>Displays</b>	DP++ 1.4 (4K@60Hz)	5
<b>Ethernet</b>	LAN (Intel I226 2.5Gbps)	5
<b>Expansion Slots</b>	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
<b>External I/O</b>	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
<b>Internal I/O</b>	SATA	2 x 2.5" SATA III SSD / HDD
	CAN Bus	2 x CAN Bus-Isolation 2.0B (optional by MOQ)
	GPIO/ DIO	7-bit (by BIOS selection)
<b>Power</b>	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
<b>Environment</b>	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
	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)

<b>Watchdog Timer</b>	Interval	Programmable from 1 to 255 Seconds
<b>Security</b>	TPM 2.0	dTPM2.0 (Hardware, Infineon:SLM9670AQ2.0)
	Out-of-band (OOB)	1 x InnoAgent (RJ45)
<b>Physical Characteristics</b>	Dimension L x W x H (mm)	280 x 270 x 148.2
	Net Weight / Gross Weight (KG)	5.7 / 8
	Mount	Wall Mount
<b>Operating System</b>	Operating System	Linux Ubuntu 22.04 Microsoft Windows 10 IoT Enterprise 2021 LTSC
	<b>Regulation</b>	Safety



## 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 (218 x 105 x 63.5mm) L x W x H	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

**HQ (Taiwan)** T +886-2-7703-3000 / E sales@innodisk.com  
**CN** T +86-755-2167-3689 / E sales\_cn@innodisk.com  
**US** T +1-510-770-9421 / E usasales@innodisk.com  
**EU** T +31-40-3045-400 / E eusales@innodisk.com  
**JP** T +81-3-6667-0161 / E jp\_sales@innodisk.com

