

APPLIED INTELLIGENCE

APEX SERIES



APEX-P200

HIGHLIGHT FEATURES

Intel-Based AI System with NVIDIA RTX 2000 Ada Accelerator

- Supports 3,072 CUDA Cores, 96 Tensor Cores, and 24 RT Cores with 8GB GDDR6 memory for AI medical imaging diagnostics and object detection.
- Intel 13th Gen Core i7 CPU, 32GB DDR5 DRAM and 512GB NVMe SSD are pre-installed.
- Compact design with dimensions of 182mm x 158.6mm x 90mm for efficient space usage.

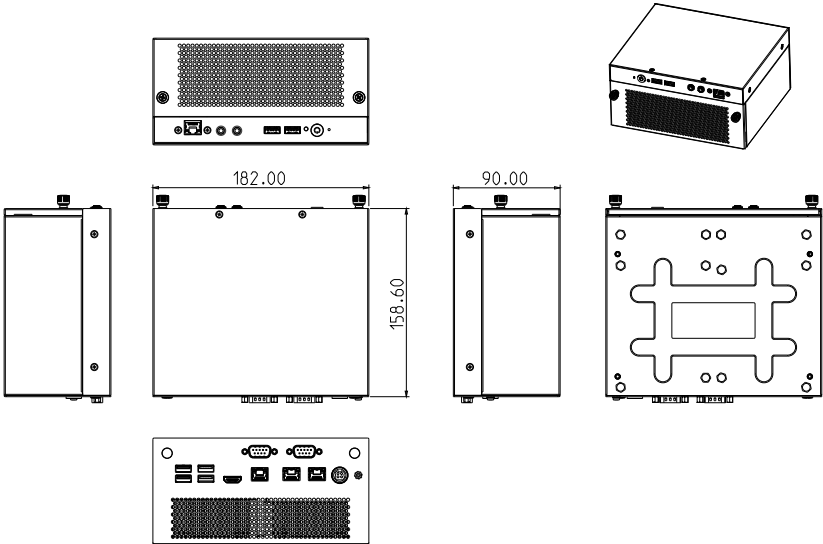
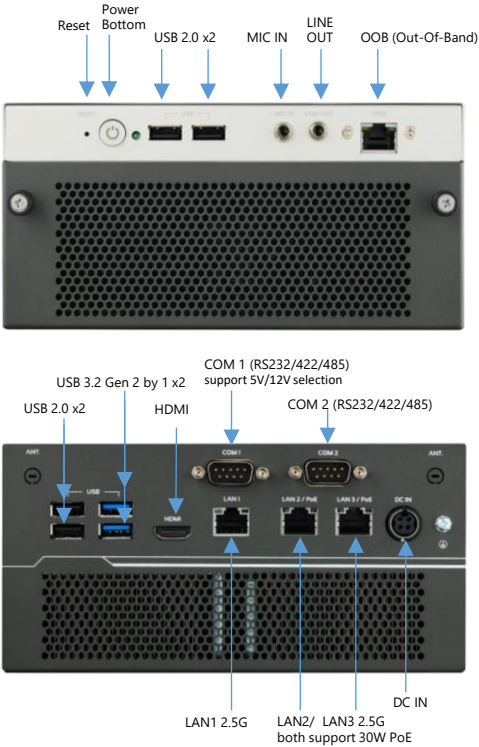
SPECIFICATIONS

Platform	Intel CPU	Core i7-13800HE
	Cores (P+E+LPE)	14C (6P + 8E)
	Threads	20
	Max. Frequency	5GHz
	Cache	24MB
	CPU TDP	45W
	BIOS	AMI UEFI 256Mbit
AI Accelerator	AI Engine	NVIDIA RTX 2000 Ada
	Form Factor (Interface)	MXM graphics module version 3.1, Type A (PCIe Gen 4 x8)
	Cores	3072 x NVIDIA Ada Lovelace architecture-based CUDA Cores 96 x NVIDIA fourth-generation Tensor Cores 24 x NVIDIA third-generation RT Cores
	GPU memory	8GB GDDR6 (w/ECC)
Memory	Technology / Socket	DDR5 5200MT/s 、 2 x 262pin DDR5 SO-DIMM
	Max. Capacity	up to 64GB (2 x 16GB, total 32GB pre-installed)
Graphics	Controller	Intel Iris Xe Graphics architecture
	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	HDMI 2.1 (8K@60Hz)	1
Ethernet	LAN (Intel I226 2.5Gbps)	3x (LAN 2/3 support 802.at with 30W PoE)
Expansion Slots	M.2 2280 M Key	1 x (PCIe Gen 4 x4), 512GB M.2 SSD pre-installed
	M.2 2230 E Key	1 x (PCIe Gen 3 x1/USB 2.0)
	MXM Type A	1 x (PCIe Gen 5 x8), RTX 2000 Ada pre-installed
External I/O	COM1	RS232/422/485 (5V/12V)
	COM2	RS232/422/485
	USB 3.2 Gen2x1 (10Gbps)	2
	USB 2.0	2
	Buttons	1 x Power (with LED)
	Audio (Realtek ALC888S)	Mic-in x 1, Line-out x 1
Internal I/O	SATA	1 x 2.5" SATA III SSD/HDD
Power	Power Input Voltage	DC 19V (±5%)
	Power Consumption (Max.)	19V@10.5A (with i7-13800HE/ 512GB SSD/ 32GB DRAM/ NVIDIA RTX 2000 Ada)
	Power Connector Type	DC DIN 4pin Φ10/Φ12
Environment	Operating Temperature	-20℃~60℃
	Storage Temperature	-40℃~85℃
	Operating Humidity	5~90% Relative humidity, non-condensing
	Operating Vibration	With SSD: 3 Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1hr/axis AI accelerator)

Environment	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)
Miscellaneous	LED Indicator	1 x HDD LED
Physical Characteristics	Dimension L x W x H (mm)	182 x 158.6 x 90
	Net Weight / Gross Weight (KG)	3 / 3.7
	Mount	Wall Mount
	Antenna Holes	2
Operating System	Operating System	Linux Ubuntu 22.04
		Microsoft Windows 10 IoT Enterprise 2021 LTSC
Regulation	Safety	Microsoft Windows 11 IoT Enterprise 2024 LTSC
		CE / FCC / UKCA

ORDER INFORMATION

Part No.	Intel CPU	FAN	NVIDIA GPU	COM	LAN	USB	SATA	Display	Storage	Memory	M.2	Operating Temp.
APEX-P200-A01	Core i7-13800HE	6800rpm	RTX 2000 Ada	2	3	4	1	1	512GB	32GB	2 (E+M)	-20°C~60°C



PACKING LIST

Part Number	Description	Q'ty
APEX-P200-A01	APEX-P200 System	1
7SW1-M2003511SN	Mounting screws for M.2 module	2
9Z9000000131	Adapter, 230W + 19.5V + DC Jack	1
7ANA01000L111S01	Wall Mount Bracket	2

OPTIONAL ACCESSORIES

P/N	Description
TZ-000-39-11-C2	Wi-Fi module (Intel AX210)
7W5000000331	IPX Cable
9Z5000000290	Wi-Fi Antenna
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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