APPLIED INTELLIGENCE
APEX SERIES



APEX-S100

HIGHLIGHT FEATURES

2U Short-Depth Design Empowering NVIDIA MGX Modular AI Server

Supports NVIDIA H200, RTX PRO 6000 Blackwell Server Edition

- Features Intel® Xeon® 6 processors (codenamed Birch Stream)
- Engineered with a powerful hardware configuration:
  - Up to 1T DDR5 6400 MT/s RDIMM, 4 x 4TB E1.S, 2 x 2TB M.2 SSD
  - Supports NVIDIA BlueField-3 DPU, NVLink
  - Hot-swappable E1.S SSD & CRPS for easy maintenance
- Suitable for AI training, deep learning, LLM, SLM, HPC, fine-tuning

SPECIFICATIONS

Platform	Intel CPU	Xeon 6731P	Xeon 6730P	Xeon 6736P
	Cores (P+E+LPE)	32C	32C	36C
	Threads	64	64	72
	Max. Frequency	4.1GHz	3.8GHz	4.1GHz
	Cache	144MB	288MB	144MB
	CPU TDP	245W	250W	205W
	BIOS	Insyde SPI 512Mbit		
AI Accelerator	AI Engine	up to 2 x RTX PRO 6000 Blackwell Server Edition or up to 2 x H200 NVL		
	Form Factor(Interface)	11.2cm H x 26.7cm L, dual slot, full height (PCIe Gen 5 x16)		
	Cores / Computational power	RTX PRO 6000 Blackwell Server Edition: 24,064 x Blackwell CUDA Cores, 752 x 5th gen. Tensor Cores, 188 x 4th gen. RT Cores H200 NVL: 1,671 TFLOPS (FP16 / BF16 Tensor Cores)		
	GPU memory	RTX PRO 6000 Blackwell Server Edition: 96GB GDDR7 (w/ECC) H200 NVL: 141GB HBM3e (w/ECC)		
Memory	Technology / Socket	DDR5 6400 MT/s, 8 x 288-pin DDR5 RDIMM DDR5 8000 MT/s, 8 x 288-pin DDR5 MRDIMM (support ECC, 128GB per DIMM)		
	Max. Capacity	up to 1T		
Displays	Mini DP (Full HD@60Hz)	1		
BMC	BMC	1 x 1Gbps by AST2600 (BMC management only, no Internet access)		
Ethernet	Ethernet	2 x 10Gbps by Intel X710-T2 or 2 x 100Gbps by BlueField-3 B3220		
Expansion Slots	M.2 2280/22110 M Key	2 x (PCIe gen 5 x4), 2 x 2TB pre-installed, support RAID 0/1		
	E1.S	4 x (PCIe gen 5 x4), 4 x 3.84TB pre-installed, support RAID 0/1/5/10, hot-swappable, limit height 15mm		
	PCIe x16 (FHFL)	2 x (PCIe Gen 5 x16) Accelerator default, support NVLink		
	PCIe x16 (FHHL)	1 x (PCIe Gen 5 x16) NIC default		
	PCIe x8 (FHFL)	1 x (PCIe Gen 5 x16)*1		
External I/O	USB 2.0	2		
Power	Power Input Voltage	AC 220V		
	Power Consumption	TBA		
	Power Connector Type	C13 (1+1 CRPS)		
Environment	Operating Temperature	0°C ~ 35°C (H200 NVL), 0°C ~ 30°C (RTX PRO 6000 Blackwell Server Edition)		
	Storage Temperature	-40°C ~ 70°C		
	Operating Humidity	95% at 30°C relative humidity, non-condensing		
	Operating Vibration	TBA		
	Operating Shock	TBA		

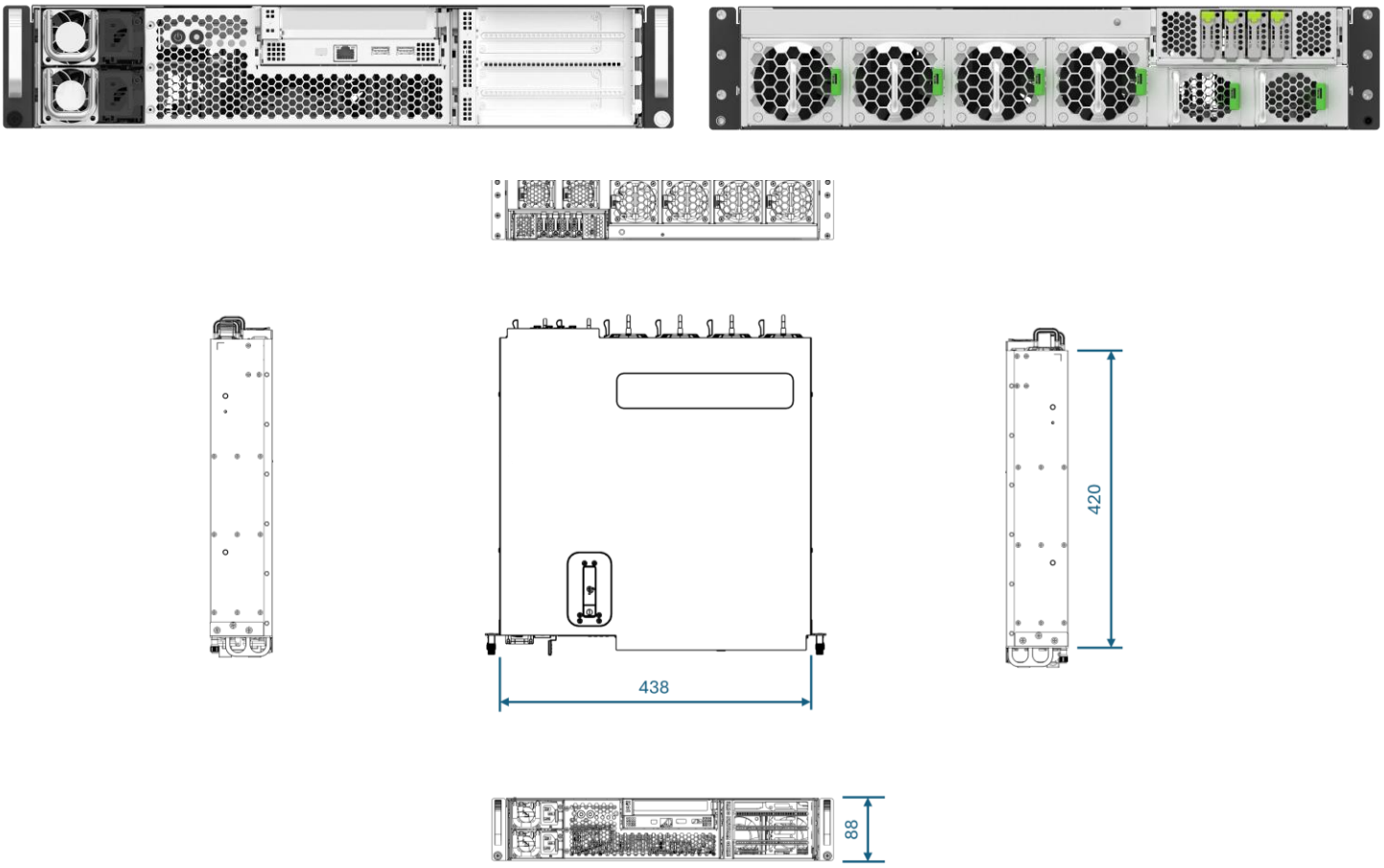
*1: Dual accelerators installed will occupy this slot

Security	TPM 2.0	dTPM2.0 (Hardware, Infineon: SLM9670AQ2.0)
Miscellaneous	LED Indicator	1 × HDD, 1 × UID, 1 × Power, 1 × LAN, 1 × Info
Physical Characteristics	Dimension L × W × H (mm)	438 × 420 × 88
	Net Weight / Gross Weight (KG)	28.50 kgs / 29.50 kgs
	Mount	Rackmount
Operating System	OS Compatibility	Linux Ubuntu Server Microsoft Windows Server 2019/2022
Regulation	Safety	CE, FCC, UL, KCC

ORDER INFORMATION

Part No.	Intel CPU	Accelerator	LAN	Storage (M.2/E1.S)	Memory	CRPS PSU
APEX-S100-AXX	Xeon 6731P Xeon 6730P Xeon 6736P	up to 2 × RTX PRO 6000 Blackwell SE up to 2 × H200 NVL (by request)	2 × 10Gbps or 2 × 100Gbps (by request)	2 × 2TB M.2 4 × 3.84TB E1.S (by request)	256GB~1T (by request)	2000W*2

* For other config. needs, please contact local sales



PACKING LIST

Part Number	Description	Q'ty
APEX-S100-Axx	APEX-S100 System	1

OPTIONAL ACCESSORIES

P/N	Description	Q'ty
7W8000000070	Power Cord, Standards (UK), 1.8m	2
7W8000000080	Power Cord, Standards (EU), 1.8m	2
7W8000000090	Power Cord, Standards (US), 1.8m	2

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