

# APEX-S100

## HIGHLIGHT FEATURES



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

Supports NVIDIA H200, RTX PRO 6000 Blackwell Server Edition, L40S

- Features Intel® Xeon® 6 processors (codenamed Birch Stream)
- Engineered with a powerful hardware configuration:
  - Up to 1T DDR5 6400 MT/s RDIMM, 2 × 4TB E1.S, 2 × 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

	Intel CPU	Xeon 6731P	Xeon 6730P	Xeon 6736P
<b>Platform</b>	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		
	<b>AI Accelerator</b>	AI Engine	up to 2 × L40S or up to 2 × RTX PRO 6000 Blackwell Server Edition or up to 2 × H200 NVL	
Form Factor(Interface)		11.2cm H × 26.7cm L, dual slot, full height (PCIe Gen 5 ×16)		
Cores / Computational power		L40S: 18,176 × Ada CUDA Cores, 568 × 4th gen. Tensor Cores, 142 × 3rd gen. RT Cores RTX PRO 6000 Blackwell Server Edition: 24,064 × Blackwell CUDA Cores, 752 × 5th gen. Tensor Cores, 188 × 4th gen. RT Cores H200 NVL: 1,671 TFLOPS (FP16 / BF16 Tensor Cores)		
GPU memory		L40S: 48GB GDDR6 (w/ECC) RTX PRO 6000 Blackwell Server Edition: 96GB GDDR7 (w/ECC) H200 NVL: 141GB HBM3e (w/ECC)		
<b>Memory</b>	Technology / Socket	DDR5 6400 MT/s, 8 × 288-pin DDR5 RDIMM DDR5 8000 MT/s, 8 × 288-pin DDR5 MRDIMM (support ECC, 128GB per DIMM)		
	Max. Capacity	up to 1T		
<b>Displays</b>	Mini DP (Full HD@60Hz)	1		
<b>BMC</b>	BMC	1 × 1Gbps by AST2600 (BMC management only, no Internet access)		
<b>Ethernet</b>	Ethernet	2 × 10Gbps by Intel X710-T2 or 2 × 100Gbps by BlueField-3 B3220		
<b>Expansion Slots</b>	M.2 2280/22110 M Key	2 × (PCIe gen 5 ×4), 2 × 2TB pre-installed, support RAID 0/1		
	E1.S	4 × (PCIe gen 5 ×4), 2 × 3.84TB pre-installed, support RAID 0/1/5/10, hot-swappable, limit height 15mm		
	PCIe ×16 (FHFL)	2 × (PCIe Gen 5 ×16) Accelerator default, support NVLink		
	PCIe ×16 (FHHL)	1 × (PCIe Gen 5 ×16) NIC default		
	PCIe ×8 (FHFL)	1 × (PCIe Gen 5 ×16)*1		
<b>External I/O</b>	USB 2.0	2		
<b>Power</b>	Power Input Voltage	AC 220V		
	Power Consumption	TBA		
	Power Connector Type	C13 (1+1 CRPS)		
<b>Environment</b>	Operating Temperature	0°C ~ 35°C (L40S, 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		

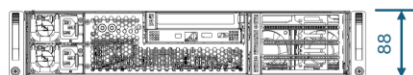
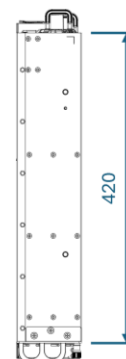
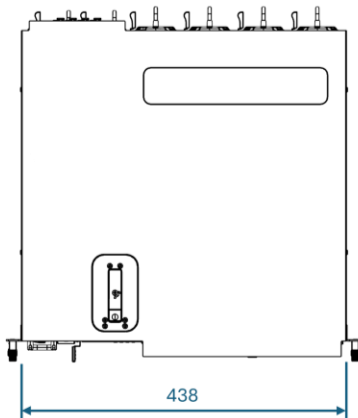
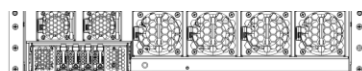
\*1: Dual accelerators installed will occupy this slot

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

## ORDER INFORMATION

Part No.	Intel CPU	Accelerator	LAN	Storage (M.2/E1.S)	Memory	CRPS PSU
APEX-S100-A00	Xeon 6731P	up to 2 × L40S	2 × 10Gbps or 2 × 100Gbps (by request)	2 × 2TB M.2 2 × 3.84TB E1.S	64GB~1T (by request)	2000W
APEX-S100-A01	Xeon 6730P	up to 2 × RTX PRO 6000 Blackwell SE up to 2 × H200 NVL				
APEX-S100-A02	Xeon 6736P	(by request)				

\* 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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