ESC8000A-E13 NVIDIA H200 NVL, RTX PRO 6000 BSE

New Generation, High Performance 4U GPU Server

Form Factor / 4U | CPU Number / 2 | Memory Number / 24

ESC8000A-E13 is a dual-socket server powered by AMD EPYC™ processors, designed for enterprise AI infrastructure with exceptional computational capabilities, accelerating GPU interconnects and high-bandwidth fabric, supporting up to eight 600W dual-slot GPUs, and offering scalable performance through configurable NVIDIA® NVLink™ 2-Way or 4-Way Bridges to optimize bandwidth and performance for demanding AI and HPC workloads.

FEATURE

- AMD EPYC 9005/9004 Series Processors
- Modularized Design
- 8 x Direct 600W GPU Support
- Optimized Server Configuration
- Toolless Design

Target market

- Virtual Machines
- Data Center
- HPC Application
- AI Training
- LLM Inference

5th/4th Gen AMD EPYC™ Processors

Powered by AMD EPYC 9005/9004 processors with up to 192 Zen 5/5c cores and support for a maximum TDP of 500 watts per socket

Direct GPU Support

Enable versatile configurations and rapid deployment in large-scale enterprise AI infrastructures, providing the computational power and scalability needed to support demanding AI workloads

Optimized Connectivity

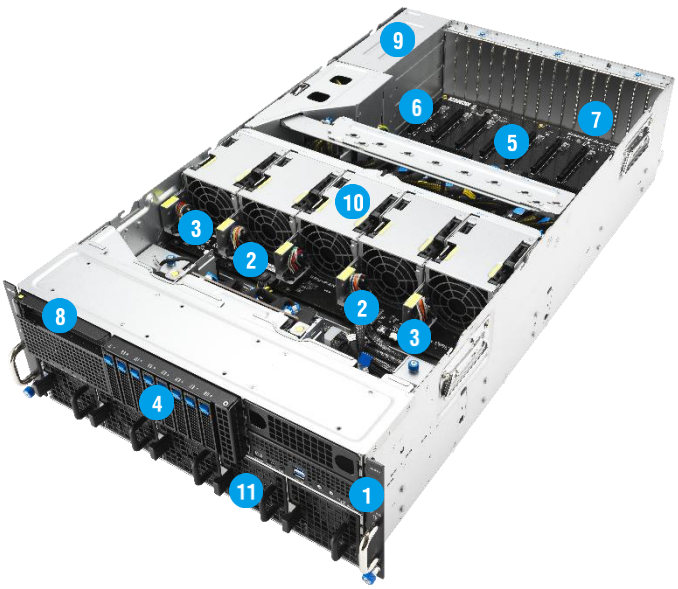
Offers two PCIe 5.0 slots for high-bandwidth NICs, DPUs, and up to eight 600W dual-slot GPUs, all directly connected to the CPU to minimize latency and optimize performance

Storage Flexibility

Offers versatile storage configurations, including hardware RAID functionality, and supports up to six 2.5” U.2 NVMe drives for enhanced performance and scalability

Toolless Design

The ASUS-exclusive toolless design empowers easy service and saves over 90% maintenance time for maximum efficiency



1. Asset Tag
2. 24 x DDR5 DIMM up to 6400Mhz
3. 2 x AMD EPYC™ 9005/9004 Series Processor
4. 8 x 2.5” Hot-swap HDD Bays
5. 8 x PCIe slot for dual-slot GPU (Gen5 x16 link, support up 600W)
6. 1 x PCIe slot for NIC / NVIDIA BlueField®-3 DPUs (Gen5, x16 link, FHHL)
7. 1 x PCIe slot for NIC (Gen5, x8 link, FHHL)
8. 1 x PCIe slot for PCIe card (Gen5 x8 link, FHHL)
9. 3+1 Redundant 3200W 80 PLUS Titanium Power Supply
10. 5 x 8080 Tool-less, Hot-Swap GPU Fan Modules
11. 5 x 8080 Tool-less, Hot-Swap System Fan Modules

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ESC8000A-E13

SPECIFICATION

Processor Support		2 x Socket SP5 (LGA 6096) AMD EPYC™ 9005/9004 series processors* *Up to 500 TDP, actual TDP support varies by configuration
Core Logic		System on Chip (SOC)
Memory	**Total Slots**	24 x DIMM slots (12 channel per CPU, 12 DIMM per CPU)
	Capacity	Maximum up to 3TB
	Memory Type	DDR5 6400/5600 RDIMM *Refer to ASUS server AVL for the latest update
	Memory Size	128GB, 96GB, 64GB, 32GB, 16GB RDIMM *Refer to ASUS server AVL for the latest update
Expansion Slots	**Total Slots**	11
	Slot Type	Rear: - 8 x PCIe x16 (Gen5 x16 link, FHFL) for dual-slot GPU cards - 1 x PCIe x16 (Gen5 x16 link, FHHL) for NIC cards or NVIDIA BlueField®-3 DPU - 1 x PCIe x16 (Gen5, x8 link, FHHL) for NIC card Front: - *Optional: 1 x PCIe x16 (Gen5 x8 link, FHHL) for HBA/RAID card
Storage Bays		8 x 2.5" Front Hot-swap Storage Bays* *Backplane supports up to 4 or 6 NVMe drives based on HBA/RAID card model installed；Without RAID selection, support up to 2 x 2.5” NVMe
Networking	**LAN**	1 x Management Port (RJ45)
Multi-GPU Support		Please find the latest GPU support from https://servers.asus.com/support/gpu
Graphic	**VGA**	Aspeed AST2600 64MB
Front I/O Ports		1 x Mini display port 2 x USB 5Gbps ports 1 x Debug port
Rear I/O Ports		1 x USB 5Gbps port 1 x RJ-45 management LAN port
Switch/LED		Front Switch/LED: 1 x Power switch/LED, 1 x Location switch/LED, 1 x Message LED, 1 x Clear CMOS switch, 1 x Reset switch, 1 x Q-Code/Port 80 LED Rear Switch/LED: 1 x Power switch/LED, 1 x Location switch/LED, 1 x Message LED
OS Support		Please find the latest OS support from OS Compatibility Guide | ASUS
Management Solution	**Software**	ASUS Control Center Enterprise (in-band)
	Out of Band Remote Management	ASMB12-iKVM for (out-of-band/BMC AST2600)
Dimension		800mm x 439.5mm x 175 mm (4U) 31.5’’x17.3’’x 6.9’’
Net Weight Kg		45 kg
Gross Weight Kg		56 kg
Power Supply		3+1 Redundant 3200W 80 PLUS Titanium power Rating: 220-240 Vac, 16A (x4) 50/60Hz
Environment		Operating temperature: 10°C ~ 35°C Non-operating temperature: -40°C ~ 60°C Operating humidity: 20% ~ 85% (Non-condensing) Non-operating humidity: 20% ~ 95% (Non-condensing) *For operating temperatures above 30°C, please contact your local sales representative

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