

ESC8000A-E13

New Generation, High Performance 4U GPU Server



4U



2



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 Series Processors
- Modularized Design
- 8 x Direct 600W GPU Support
- Optimized Server Configuration
- Toolless Design

5th Gen AMD EPYC™ Processors

Powered by AMD EPYC 9005 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

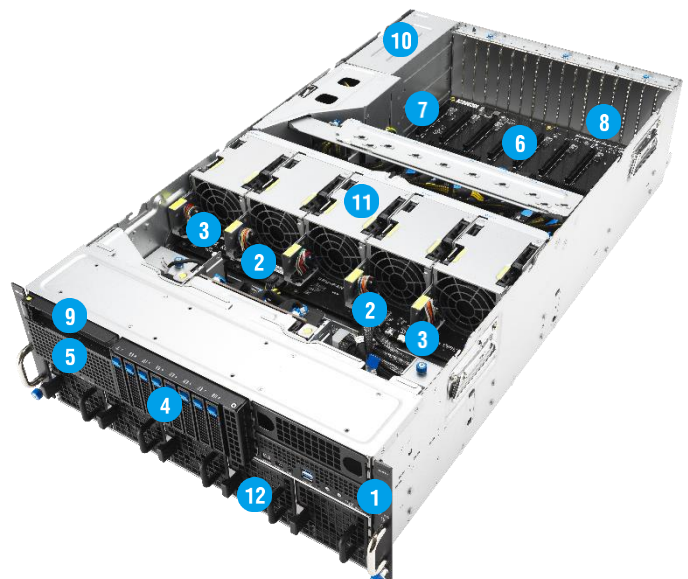
Offers versatile storage configurations, including hardware RAID functionality, and supports up to six 2.5" U.2 NVMe drives for enhanced performance and scalability

Target market

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

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 6000Mhz
3. 2 x AMD EPYC™ 9005 Series Processor
4. 8 x 2.5" Hot-swap HDD Bays
5. 2 x M.2 (Gen 5 x4 link, up to 22110)
6. 8 x PCIe slot for dual-slot GPU (Gen5 x16 link, support up 600W)
7. 1 x PCIe slot for NIC / NVIDIA BlueField®-3 DPUs (Gen5, x16 link, FHHL)
8. 1 x PCIe slot for NIC (Gen5, x8 link, FHHL)
9. 1 x PCIe slot for PCIe card (Gen5 x8 link, FHHL)
10. 3+1 Redundant 3200W 80 PLUS Titanium Power Supply
11. 5 x GPU Fan
12. 5 x System Fan

ESC8000A-E13

Processor Support

SPECIFICATION

		2 x Socket SP5 (LGA 6096)
		AMD EPYC™ 9005 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
Expansion Slots	Memory Size	128GB, 96GB, 64GB, 32GB, 16GB RDIMM *Refer to ASUS server AVL for the latest update
	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: - 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
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		42 kg
Gross Weight Kg		44.23 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 Non-operating humidity: 20% ~ 95% (Non-condensing) *For operating temperatures above 30°C, please contact your local sales representative