

# ESC8000A-E13

# New Generation, High Performance 4U GPU Server









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ESC8000A-E13 is a dual-socket server powered by AMD EPYC<sup>TM</sup> 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<sup>TM</sup> 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

## **Target market**

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

### 5<sup>th</sup> Gen AMD EPYC<sup>TM</sup> 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**

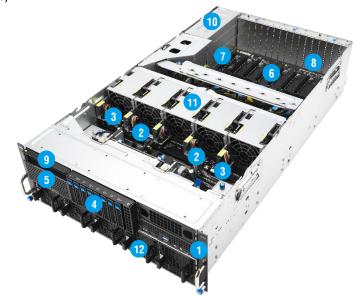
Offers two PCIe 5.0 slots for high-bandwidth NICs, DPUs, and up to eight 600W dual-slot GPUs, all directly connected to the CPU to minimize latency and optimize performance

# **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

### **Toolless Design**

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



- Asset Tag
- 2. 24 x DDR5 DIMM up to 6000Mhz
- 3. 2 x AMD EPYC<sup>TM</sup> 9005 Series Processor
- 4. 8 x 2.5" Hot-swap HDD Bays
- 5. 2 x M.2 (Gen 5 x4 link, up to 22110)
- 8 x PCIe slot for dual-slot GPU (Gen5 x16 link, support up 600W)
- 7. 1 x PCle 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 PCle slot for PCle 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





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**SPECIFICATION** 

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Processor Support		2 x Socket SP5 (LGA 6096)
		AMD EPYC <sup>TM</sup> 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 / 3DS RDIMM
		*Refer to ASUS server AVL for the latest update
	Memory Size	128GB, 64GB, 32GB RDIMM *Refer to ASUS server AVL for the latest update
<b>Expansion Slots</b>	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:
Storago Pave		- 1 x PCIe x8 (Gen5 x8 link, FHHL) for HBA/RAID card  8 x 2.5" Front Hot-swap Storage Bays*
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)
Graphic	VGA	Aspeed AST2600 64MB
Front I/O Ports		1 x Mini display port 2 x USB 5Gbps ports
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		Windows Server RedHat® Enterprise Linux, SuSE® Linux Enterprise Server, CentOS, Ubuntu, VMware
		Please find the latest OS support from OS Compatibility Guide   ASUS
Management	Software	ASUS Control Center (Classic)
Solution	Out of Band Remote Management	On-Board ASMB12-iKVM for KVM-over-IP
Dimension		800mm x 439.5mm x 175 mm (4U) 31.5"x17.3"x 6.9"
Net Weight Kg (CPU, DRAM & HDD not included)		42 kg
Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		44.23 kg
Power Supply (following different configuration by region)		3+1 Redundant 3200W 80 PLUS Titanium power Rating: 220-240 Vac, 16A (x4) 50/60Hz
Environment		Operating temperature: $10^{\circ}\text{C} \sim 35^{\circ}\text{C}$ Non-operating temperature: $-40^{\circ}\text{C} \sim 60^{\circ}\text{C}$ Non-operating humidity: $20\% \sim 95\%$ (Non-condensing)