**ASUS**

# ESC8000A-E13

## New Generation, High **Performance 4U GPU** Server



**EPYC**

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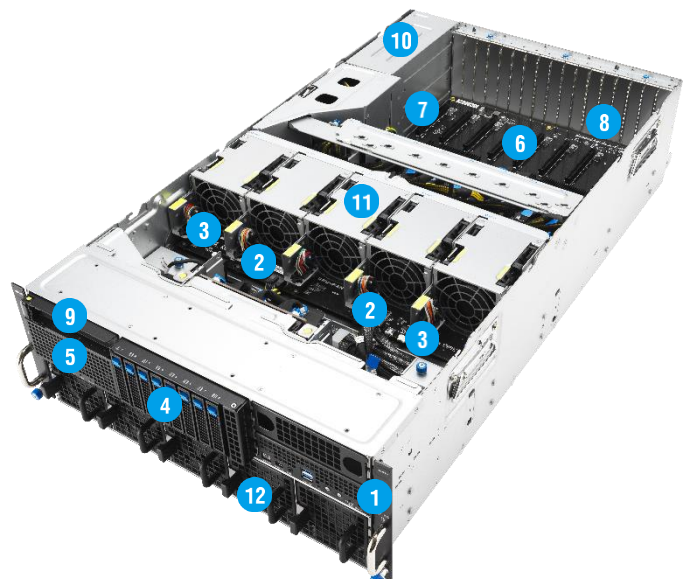
### Storage Flexibility
Offers versatile storage configurations, including hardware RAID functionality, and supports up to six 2.5" U.2 NVMe drives for enhanced performance and scalability

### 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

**SPECIFICATION**

| | | |
|---|---|---|
| **Processor Support** | | 2 x Socket SP5 (LGA 6096)<br><br>AMD EPYC™ 9005 series processors*<br>*TDP support 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 per CPU socket |
| | **Memory Type** | DDR5 6400/5600 RDIMM/ 3DS RDIMM<br>*Refer to ASUS server AVL for the latest update |
| | **Memory Size** | 128GB, 64GB, 32GB RDIMM<br>*Refer to ASUS server AVL for the latest update |
| **Expansion Slots** | **Total Slots** | 11 |
| | **Slot Type** | Rear:<br>- 8 x PCIe x16 (Gen5 x16 link, FHFL) for dual-slot GPU cards<br>- 1 x PCIe x16 (Gen5 x16 link, FHHL) for NIC cards or NVIDIA BlueField®-3 DPU<br>- 1 x PCIe x16 (Gen5, x8 link, FHHL) for NIC card<br>Front:<br>- 1 x PCIe x8 (Gen5 x8 link, FHHL) for HBA/RAID card |
| **Storage Bays** | | 8 x 2.5" Front Hot-swap Storage Bays*<br>(Backplane supports up to 8 x NVMe)<br>*The actual number of storage devices depends on the HBA/RAID configuration |
| **Networking** | **LAN** | 1 x Management Port (RJ45) |
| **Graphic** | **VGA** | Aspeed AST2600 64MB |
| **Front I/O Ports** | | 1 x Mini display port<br>2 x USB 5Gbps ports |
| **Rear I/O Ports** | | 1 x USB 5Gbps port<br>1 x RJ-45 management LAN port |
| **Switch/LED** | | Front Switch/LED:<br>1 x Power switch/LED, 1 x Location switch/LED, 1 x Message LED,<br>1 x Clear CMOS switch, 1 x Reset switch, 1 x Q-Code/Port 80 LED<br>Rear Switch/LED:<br>1 x Power switch/LED, 1 x Location switch/LED, 1 x Message LED |
| **OS Support** | | Windows Server<br>RedHat® Enterprise Linux, SuSE® Linux Enterprise Server, CentOS, Ubuntu, VMware<br><br>Please find the latest OS support from OS Compatibility Guide | ASUS |
| **Management Solution** | **Software** | ASUS Control Center (Classic) |
| | **Out of Band Remote Management** | On-Board ASMB12-iKVM for KVM-over-IP |
| **Dimension** | | 800mm x 439.5mm x 175 mm (4U)<br>31.5''x17.3''x 6.9'' |
| **Net Weight Kg (CPU, DRAM & HDD not included)** | | 42 kg |
| **Gross Weight Kg**<br>**(CPU, DRAM & HDD not included, Packing include)** | | 44.23 kg |
| **Power Supply**<br>**(following different configuration by region)** | | 3+1 Redundant 3200W 80 PLUS Titanium power<br>Rating: 220-240 Vac, 16A (x4) 50/60Hz |
| **Environment** | | Operating temperature: 10°C ~ 35°C<br>Non-operating temperature: -40°C ~ 60°C<br>Non-operating humidity: 20% ~ 95% (Non-condensing) |