

# ESC4000A-E12

## 1-Socket 2U Accelerator Server with 4 GPUs supported



2U



1



12

ESC4000A-E12 is a four-GPU server built for the demands of enterprise AI and high-performance computing. With AMD EPYC™ 9004 single-processor 2U GPU server that supports four dual-slot GPUs, liquid PCIe 5.0 slots, six NVMe, OCP 3.0 and ASMB11-iKVM. cooling solution, up to 12 DIMM, 8 PCIe 5.0 slots, six NVMe, OCP 3.0 and ASMB11-iKVM

### FEATURE

- AMD EPYC 9004 Series Processors
- PCIe Gen5.0 Ready
- AI and HPC workloads ready
- Comprehensive cooling solutions
- Enhanced IT-infrastructure management

### AMD EPYC 9004 Series Processors

Powered by AMD EPYC 9004 processors with 96 Zen 4 cores, 12-channel, up to 4800 MHz DDR5 and support for a maximum TDP of up to 400 watts per socket

### PCIe Gen5.0 Ready

PCI Express® (PCIe®) 5.0 delivers 64 GT/s bandwidth, which is twice the speed of PCIe 4.0, and offers lower power consumption, better lane scalability and backwards compatibility

### AI and HPC workloads ready

Up to four dual-slot active or passive GPUs, NVIDIA NVLink® bridge, and NVIDIA Bluefield DPU support to enable performance scaling

### Comprehensive cooling solutions

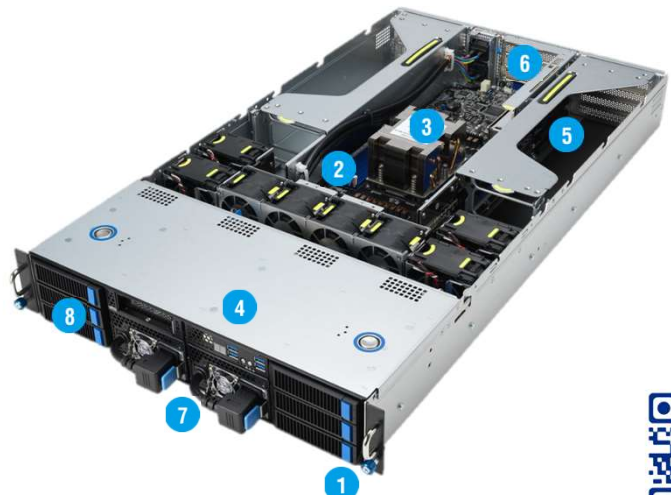
Designed for both liquid cooling and enhanced air cooling based on CPU TDP for versatile workloads

### Enhanced IT-infrastructure management

ASUS ASMB11-iKVM remote control with ASPEED AST2600, ASUS Control Center IT management software and hardware-level Root-of-Trust solution

### Target market

- Streaming Media
- Cloud Computing
- Virtualized & VDI Application
- Enterprise & HPC Application



1. Asset Tag
2. 12 x DIMM, DDR5 4800/4400 RDIMM/ RDIMM 3DS
3. AMD EPYC™ 9004 Series
4. 1 x PCI-E x8 (Gen5 x8 link)
5. 4 x PCI-E x16 (Gen5 x16 link)
6. 2 x PCI-E x16 (Gen5 x16/8 link) or OCP socket and 1 x PCI-E x8 (Gen5 x8 link)
7. 1+1 Redundant 2600W 80 PLUS Titanium CRPS-R Power Supply
8. 2 x 2.5" & 4 x 3.5" Hot-swap HDD Bays



# ESC4000A-E12

# SPECIFICATION

<b>Processor Support.</b>		1 x Socket SP5 (LGA 6096)
<b>Core Logic</b>		AMD EPYC™ 9004 series (up to 400W)
<b>Memory</b>	<b>Total Slots</b>	12 (12-channel per CPU, 12 DIMM per CPU)
	<b>Capacity</b>	Maximum up to 3TB per CPU socket
	<b>Memory Type</b>	DDR5 4800/4400 RDIMM/ 3DS RDIMM *Please refer to <a href="http://www.asus.com">www.asus.com</a> for latest memory AVL update
	<b>Memory Size</b>	64GB, 32GB, 16GB RDIMM 256GB, 128GB 3DS RDIMM * Refer to <a href="http://www.asus.com/support">www.asus.com/support</a> for more information
<b>Expansion Slots</b>	<b>Total PCI/PCI-X/PCI-E/PIKE Slots</b>	12
	<b>Slot Type</b>	Rear: -4 x PCIe x16 slots (Gen5 x16 link, FH, FL) for dual-slot GPU cards or 8 x PCIe x16 slots (Gen5 x8 link, FH,FL) for single-slot GPU cards  -1 x PCIe x16 slots (Gen5 x16 link, FH, HL) -1 x PCIe x16 slot (Gen5 x16/x8 link, FH, HL) or OCP socket option -1 x PCIe x8 slot (Gen5 x0/x8 link, LP, HL)  Front: 1 x PCIe x8 slot (Gen5 x8 link, LP, HL) Only for SKU1
<b>Disk Controller</b>	<b>SATA Controller</b>	6 x SATA 6Gb/s ports
	<b>SAS Controller</b>	Optional kits: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card Broadcom MegaRAID 9540-8i Broadcom MegaRAID 9560-16i
<b>Storage Bays</b>	<b>I = internal A or S will be hot-swappable</b>	2 x 2.5" & 4 x 3.5" Hot-swap Storage Bays  SKU1: 2 x 2.5" SATA/SAS*/NVMe + 2 x 3.5" SATA/SAS*/NVMe + 2 x 3.5" SATA/SAS*  SKU2: Build to order 2 x 2.5" SATA/SAS*/NVMe + 4 x 3.5" SATA/SAS*/NVMe (Occupy 1 x PCIe x8 link )  *SAS support required a HBA/RAID card. **For SKU1 additional 2 x NVMe support required a RAID card.
	<b>Networking</b>	<b>LAN</b> 2 x Gigabit LAN ports (Intel I350 Controller) 1 x Management Port
<b>Graphic</b>	<b>VGA</b>	Aspeed AST2600 64MB
<b>Front I/O Ports</b>		4 x USB 3.2 Gen1 ports
<b>Rear I/O Ports</b>		2 x USB 3.2 Gen1 ports 2 x Gigabit LAN ports (RJ45) 1 x MAnagement port (RJ45) 1 x VGA port
<b>Switch/LED</b>		Front : 1 x Power Button/LED 1 x Location Button/LED 1 x Message LED 1 x Q-Code/Port 80 LED 2 x LAN LED  Rear : 1 x Power Button/LED 1 x Location LED 1 x Message LED

## SPECIFICATION

<b>OS Support</b>	Windows Server RedHat® Enterprise Linux SuSE® Linux Enterprise Server CentOS Ubuntu Vmware
	*Please find the latest OS support from <a href="https://www.asus.com/event/Server/OS_support_list/OS.html">https://www.asus.com/event/Server/OS_support_list/OS.html</a>
<b>Management Solution</b>	ASUS Control Center (Classic)
<b>Software Out of Band Remote Management</b>	On-Board ASMB11-iKVM
<b>Dimension</b>	800mm x 439.5mm x 88.9mm (2U) 845.45mm x 439.5mm x 88.9mm (2U) for immersion cooling
<b>Net Weight Kg (CPU, DRAM &amp; HDD not included)</b>	24 kg
<b>Gross Weight Kg (CPU, DRAM &amp; HDD not included, Packing include)</b>	34.8 kg
<b>Power Supply (following different configuration by region)</b>	1+1 Redundant 2600W 80 PLUS Titanium CRPS-R Power Supply
<b>Environment</b>	Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% ( Non condensing)