

# ESC8000-E11

## New Generation, High Performance 4U Server



4U



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ESC8000-E11 is an 4th Gen Intel® Xeon® Scalable Processors dual-socket server built for the demands of enterprise AI infrastructure to deliver unprecedented performance with industry-leading GPUs, faster GPU interconnect and higher-bandwidth fabric, and supports up to eight dual-slot active or passive GPUs scalable configuration with a choice of NVIDIA NVLink® Bridge to enable scaling of performance with increased bandwidth — ready to match your AI and HPC workloads.

### FEATURE

- 4th Gen Intel® Xeon® Scalable Processors
- PCIe 5.0 Ready
- 2+2 Redundant 80 PLUS Titanium Power Supply
- GPU and Bluefield DPU Support
- Comprehensive cooling solutions
- Enhanced Security

### 4th Gen Intel® Xeon® Scalable Processors

Powered by 4th Gen Intel® Xeon® Scalable Processors with 8-channel, up to 4800 MHz DDR5 and support for a maximum TDP of up to 350 watts per socket

### PCIe 5.0 Ready

PCI Express® (PCIe®) 5.0 delivers 32 GT/s bandwidth, which is double the speed of PCIe 4.0, offering lower power consumption, better lane scalability and backwards compatibility.

### 2+2 Redundant 80 PLUS Titanium Power Supply

ESC8000-E11 supports up to four 3000W 80 PLUS® Titanium redundant power supplies to reduce operating costs and enable easier servicing.

### GPU and Bluefield DPU Support

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

### Comprehensive cooling solutions

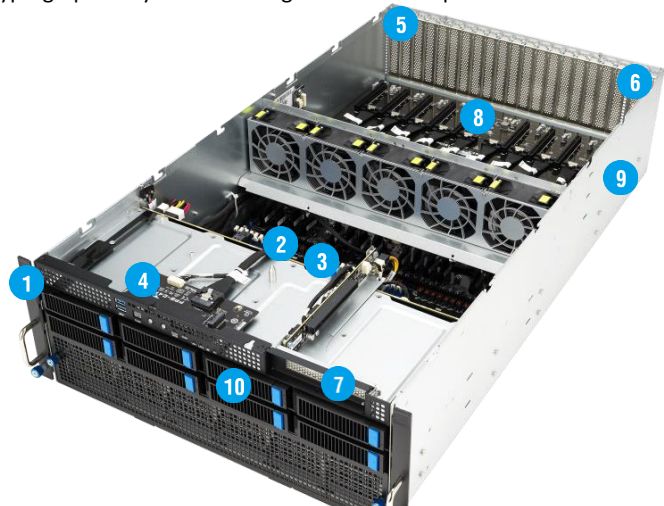
Air or liquid-cooled solutions. ESC8000-E11 supports liquid-cooled NVIDIA® A100 PCIe GPU that delivers powerful performance with less energy and provides direct-to-chip (D2C) cooling or immersion-cooling solutions for maximum data-center energy efficiency.

### Enhanced Security

ASUS servers also include support Trusted Platform Module 2.0 (TPM 2.0) to secure hardware through integrated cryptographic keys and offer regular firmware update for vulnerabilities.

### Target market

- Virtual Machines
- Data Center
- HPC
- AI Training
- All-flash Storage
- HCI



1. Asset Tag
2. 32 x DIMM, DDR5 4800/4400 RDIMM/ 3DS RDIMM
3. 2 x 4th Gen Intel® Xeon® Scalable Processors
4. 1 x M.2 (Up to 22110)
5. 1 x PCIe slot for NIC (Gen5 x16 link)
6. 1 x PCIe slot for NIC (Gen5 x8 link) or OCP3.0 (Gen5 x16 links)
7. 1 x PCIe slot for HBA/RAID cards (Gen5 x8 link, LP, HL)
8. 8 x PCIe slot for GPU (Gen5 x16 link, support up to eight dual slot GPU)
9. 2+2 Redundant 2600W/3000W 80 PLUS Titanium Power Supply
10. 8 x 3.5" Hot-swap HDD Bays



# ESC8000-E11

Processor Support

Dual Socket

## SPECIFICATION

<b>Core Logic</b>		4th Gen Intel® Xeon® Scalable Processors
<b>Memory</b>	<b>Total Slots</b>	32 x DIMM slots (8 channel per CPU, 16 DIMM per CPU, 2DPC)
	<b>Capacity</b>	Maximum up to 4 + 8 TB (DDR5 + Crow Pass)
	<b>Memory Type</b>	DDR5 4800/4400 RDIMM/ 3DS RDIMM *Refer to ASUS server AVL for the latest update
	<b>Memory Size</b>	64GB, 32GB, 16GB RDIMM 256GB, 128GB RDIMM 3DS *Refer to ASUS server AVL for the latest update
<b>Expansion Slots</b>	<b>Total PCI/PCI-X/PCI-E/PIKE Slots</b>	11
	<b>Slot Type</b>	1 x PCIe x8 slot (Gen5 ,LP,HL) for HBA/RAID cards 8 x PCIe x16 slot (Gen5, FH,FL) for dual-slot GPU card 1 x PCIe x16 slot (Gen5 ,FH,FL) for NIC card 1 x PCIe x8 slot (Gen5 FH,FL) for NIC Card or Gen5 x16 OCP socket option
<b>Disk Controller</b>	<b>M.2</b>	1 x M.2 connector (PCIe Gen3 x4 link)
	<b>SATA Controller</b>	8 x SATA 6Gbps ports (by MiniSAS-HD)
	<b>SAS Controller</b>	Optional kits: -Broadcom MegaRAID 9560-16i -Broadcom MegaRAID 9540-8i - ASUS PIKE II 3008 8-port HBA Card - ASUS PIKE II 3108 8-port HW RAID Card
<b>Storage Bays</b>	<b>I = internal A or S will be hot-swappable</b>	8 x 3.5" Front Hot-swap Storage Bays (backplane supports up to 8 x NVMe/SATA/SAS*)  *SAS support required an HBA/RAID card.
<b>Networking</b>	<b>LAN</b>	2 x 10GbE LAN ports (RJ45, X710-AT2) or 2 x Gigabit LAN ports (RJ45, I350-AM2) 1 x Management Port (RJ45)
<b>Graphic</b>	<b>VGA</b>	Aspeed AST2600 64MB
<b>Front I/O Ports</b>		2 x USB 3.2 Gen1 ports
<b>Rear I/O Ports</b>		1 x VGA port 1 x COM port 2 x 10GbE/1GbE LAN ports (RJ45, build for order) 1 x Management port (RJ45)
<b>Switch/LED</b>		Front Switch/LED: 1 x Power Button w/LED, 1 x Location Button w/LED, 1 x Message LED, 1 x Q-Code/Port 80 LED, 1 x Clear CMOS LED, 1 x Reset LED, 1 x M.2 LED Rear Switch/LED: 1 x Power Button w/LED, 1 x Location Button w/LED
<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>	<b>Software</b>	ASUS Control Center (Classic)
	<b>Out of Band Remote Management</b>	On-Board ASMB11-iKVM for KVM-over-IP
<b>Dimension</b>		800mm x 440mm x 174.5 mm (4U) 31.5"x17.32"x6.87"
<b>Net Weight Kg (CPU, DRAM &amp; HDD not included)</b>		27 kg
<b>Gross Weight Kg (CPU, DRAM &amp; HDD not included, Packing include)</b>		52 kg
<b>Power Supply (following different configuration by region)</b>		2+2 Redundant 2600W/3000W 80 PLUS Platinum Power Supply 2+1 Redundant 3000W 80 PLUS Platinum Power Supply Rating: 220-240 Vac, 15.5A(x4), 50-60 Hz
<b>Environment</b>		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C

