ESC8000-E11 (Intel Xeon)

New Generation, High Performance 4U Server



Form Factor 4U | CPU Number 2 | Memory Number 32

ESC8000-E11 is an 5th 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

- 5th Gen Intel® Xeon® Scalable Processors
- PCIe 5.0 Ready
- 2+2 Redundant 80 PLUS Titanium Power Supply
- Comprehensive cooling solutions
- Enhanced Security

Target market

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

5th Gen Intel® Xeon® Scalable Processors

Powered by 5th Gen Intel® Xeon® Scalable Processors with 8-channel, up to 5600 MHz DDR5 and support for a maximum TDP of up to 350 watts per socket

PCIe 5.0 Ready

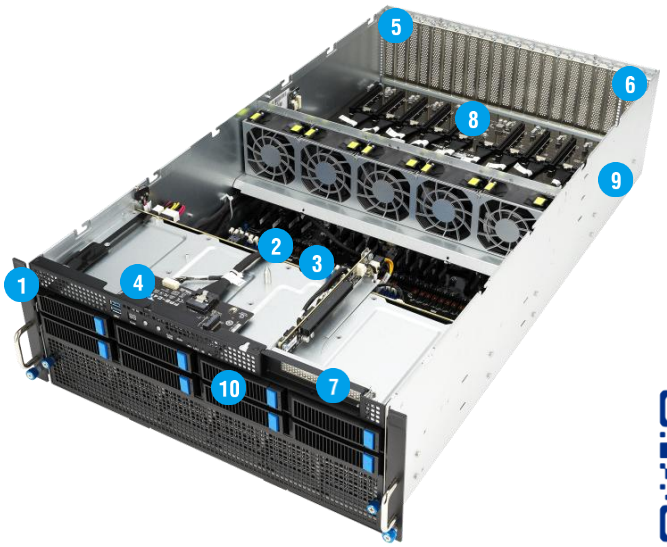
PCI Express® (PCIe®) 5.0 delivers 32 GT/s bandwidth, which is double the speed of PCIe 4.0, offering lower power consumption, better lane scalability and backwards compatibility.

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.

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.



1. Asset Tag
2. 32 x DIMM, DDR5 5600/5200/4800/4400 RDIMM/ 3DS RDIMM
3. 2 x 5th 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)
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

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ESC8000-E11

SPECIFICATION

Processor Support		Dual Socket
Core Logic		4th Gen Intel® Xeon® Scalable Processors Family(350w) 5th Gen Intel® Xeon® Scalable Processors Family(350w)
Memory	**Total Slots**	32 x DIMM slots (8 channel per CPU, 16 DIMM per CPU, 2DPC)
	Capacity	Maximum up to 4 + 8 TB (DDR5 + Crow Pass)
	Memory Type	DDR5 5600/5200/4800/4400 RDIMM/ 3DS RDIMM *Refer to ASUS server AVL for the latest update
	Memory Size	64GB, 32GB, 16GB RDIMM 256GB, 128GB RDIMM 3DS *Refer to ASUS server AVL for the latest update
Expansion Slots	**Total PCI/PCI-X/PCI-E/PIKE Slots**	11
	Slot Type	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
	M.2	1 x M.2 connector (PCIe Gen3 x4 link)
Disk Controller	**SATA Controller**	8 x SATA 6Gbps ports (by MiniSAS-HD)
	SAS Controller	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
Storage Bays	**I = internal** **A or S will be hot-swappable**	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.
Networking	**LAN**	2 x 10GbE LAN ports (RJ45, X710-AT2) or 2 x Gigabit LAN ports (RJ45, I350-AM2) 1 x Management Port (RJ45)
Graphic	**VGA**	Aspeed AST2600 64MB
Front I/O Ports		2 x USB 3.2 Gen1 ports 1 x VGA port
Rear I/O Ports		1 x COM port 2 x 10GbE/1GbE LAN ports (RJ45, build for order) 1 x Management port (RJ45)
Switch/LED		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
OS Support		Windows Server RedHat® Enterprise Linux, SuSE® Linux Enterprise Server, CentOS, Ubuntu, VMware *Please find the latest OS support from https://www.asus.com/event/Server/OS_support_list/OS.html
Management Solution	**Software**	ASUS Control Center (Classic)
	Out of Band Remote Management	On-Board ASMB11-iKVM for KVM-over-IP
Dimension		800mm x 440mm x 174.5 mm (4U) 31.5''x17.32''x 6.87''
Net Weight Kg (CPU, DRAM & HDD not included)		27 kg
Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		52 kg
Power Supply (following different configuration by region)		2+2 Redundant 2600W/3000W 80 PLUS Titanium Power Supply 2+1 Redundant 3000W 80 PLUS Titanium Power Supply Rating: 220-240 Vac, 15.5A(x4), 50-60 Hz
Environment		Operation temperature: 10℃ ~ 35℃ Non operation temperature: -40℃ ~ 70℃ Non operation humidity: 20% ~ 90% (Non condensing)
Regulation Compliance		ENERGY STAR Computer Servers Version 4.0, BSMI, CB, CE, FCC(Class A), RCM

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