

# ESC8000-E11P

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











ESC8000-E11P 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 vlaauZ
- **GPU** and Bluefield DPU Support
- Comprehensive cooling solutions
- **Enhanced Security**

### **Target market**

- Virtual Machines
- Data Center
- HPC
- Al Training
- All-flash Storage

#### 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

ESC8000A-E12P supports up to four 3000W 80 PLUS® Titanium redundant power supplies to reduce operating costs and enable easier servicing.

## **GPU and Bluefield DPU Support**

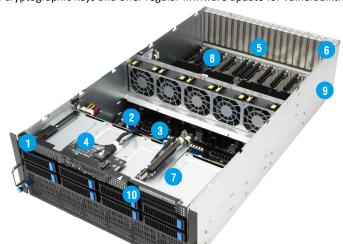
Up to eight dual-slot active or passive GPUs, NVIDIA NVLink® bridge, and NVIDIA Bluefield DPU support to enable performance scaling

## **Comprehensive cooling solutions**

Air or liquid-cooled solutions. ESC8000-E11P 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.







32 x DIMM, DDR5 4800/4400 RDIMM/ 3DS RDIMM

2 x 4th Gen Intel® Xeon® Scalable Processors

- 1 x M.2 (Up to 22110)
- 4 x PCIe slot for NIC (Gen5 x16 link)
- 1 x OCP3.0 socket option(Gen5 x16 links, will occupy one PCIe Slot)
- 1 x PCIe slot for HBA/RAID cards (Gen5 x16 link,LP,HL)
- 8 x PCIe slot for GPU (Gen5 x16 link, support up to eight dual slot GPU)
- 2+2 Redundant 2600W/3000W 80 PLUS Titanium Power Supply
- 8 x 3.5" Hot-swap HDD Bays











# ESC8000-E11P

# **SPECIFICATION**

Author	L3C8000-L11P SPECIFICATIO		
Memory Total Slots 2 x DIMM slots (8 channel per CPU, 16 DIMM per CPU, 2DPC)  Capacity Maximum up to 4+8TB per CPU socket  Memory Type DDR5 4 8000/4400 RDIMM 3DS RDIMM *Refer to ASUS server AVL for the latest update  6469, 3269, 1568 RDIMM 3DS *Refer to ASUS server AVL for the latest update  5500 RDIMM 3DS *Refer to ASUS server AVL for the latest update  8 x PCT 2 x 568 RDIMM 3DS *Refer to ASUS server AVL for the latest update  8 x PCT 2 x 568 RDIMM 3DS *Refer to ASUS server AVL for the latest update  1 x PCT 2 x 568 RDIMM 3DS *Refer to ASUS server AVL for the latest update  1 x PCT 2 x 568 RDIMM 3DS *Refer to ASUS server AVL for the latest update  1 x PCT 2 x 568 RDIMM 3DS *Refer to ASUS server AVL for the latest update  1 x PCT 2 x 568 RDIMM 3DS *Refer to ASUS server AVL for the latest update  1 x PCT 2 x 568 RDIMM 3DS *Refer to ASUS server AVL for the latest update  1 x PCT 2 x 568 RDIMM 3DS *Refer to ASUS server AVL for the latest update  1 x CENT 2 x 568 RDIMM 3DS *Refer to ASUS server AVL for the latest update  1 x CENT 2 x 568 RDIMM 3DS *Refer to ASUS server AVL for the latest update  1 x CENT 2 x 568 RDIMM 3DS *Refer to ASUS server AVL for the latest update  2 x SATA 6 Schap ports (PCT 6 Sem3 x4 link) *Refer to ASUS server AVL for the latest update  4 x CT 2 x 568 RDIMM 3DS *Refer to ASUS server AVL for the latest update  5 x SATA 6 SChap ports (PCT 6 Sem3 x4 link) *Refer to ASUS server AVL for the latest update  8 x SATA 6 SChap ports (PCT 6 Sem3 x4 link) *Refer to ASUS server AVL for the latest update  8 x SATA 6 SChap ports (PCT 6 Sem3 x4 link) *Refer to ASUS server AVL for the latest update  8 x SATA 6 SChap ports (PCT 6 Sem3 x4 link) *Refer to ASUS server AVL for the latest update and the latest	Processor Support		Dual Socket
Capacity   Maximum up to 4+8TB per CPU socket	Core Logic		4th Gen Intel® Xeon® Scalable Processors
Capacity   Maximum up to 4+8TB per CPU socket	Memory	Total Slots	32 x DIMM slots (8 channel per CPU, 16 DIMM per CPU, 2DPC)
Refer to ASUS server AVL for the latest update	•	Capacity	
2566B, 128GB RDIMM 3DS		Memory Type	·
Slot Type  1 x PCIe x16 slot (Gen5, I-I, HL) for HBA/RAID cards 8 x PCIe x16 slot (Gen5, I-I, HL) for dual-slot GPU card 4 x PCIe x16 slot (Gen5, I-I, HL) for dual-slot GPU card 1 x Gen5 x16 OCP socket option (will occupy one PCIe Slot)  M.2  1 x N 2 connector (PCIe Gen3 x di ink)  SATA Controller  SAS Controller  SAS Controller  SAS Controller  Optional kits:  -Broadcom MegaRAID 9560-16i  -Broadcom MegaRAID 9540-8i  -ASUS PIKE il 3008 8-port HBA Card  -ASUS Control will part of the Asus Pike Basis  Boomm x 440mm x 174.5 mm (4U)  31.5" x17.32" x 6.87"  Net Weight Kg (CPU, DRAM & HDD not included)  27 kg		Memory Size	256GB, 128GB RDIMM 3DS
S x PCIe x 16 slot (GenS, FH,FL) for Jula-slot GPU card   4 x PCIe x 16 slot (GenS, FH,FL) for NIC card   1 x GenS x 16 OCP socket option (will occupy one PCIe Slot)   X M.2	<b>Expansion Slots</b>	Total PCI/PCI-X/PCI-E/PIKE Slots	13
M.2 1x M.2 connector (PCIe Gen3 x4 link)  SATA Controller 8 x SATA 6Gbps ports (by MiniSAS-HD)  SAS Controller Optional kits: - Broadcom MegaRAID 9560-16i - Broadcom MegaRAID 9540-8i - Broadcom MegaRAID 9540-16i - Broadcom MegaRaID 9500-16i - Broadcom MegaRaID 9500-		Slot Type	8 x PCIe x16 slot (Gen5, FH,FL) for dual-slot GPU card 4 x PCIe x16 slot (Gen5 ,FH,FL) for NIC card
Disk Controller  SATA Controller  SAS Controller  SAS Controller  SAS Controller  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 HBA CARD - ASUS PIKE II AND ports (RI45, AT10-AT2) - 1 x Management Port (RI45) - 1 x Management Port (RI45) - 1 x VGA PORT - 2 x VIGBBLE LAN PORTS (RI45, build for order) - 1 x NGA PORT - 1 x VGA PORT - 2 x VGBA PORT - 3 x VGA PORT - 3 x VGA PORT - 4 x VGA PORT - 4 x VGA PORT - 5 x		M.2	
SAS Controller  SAS Controller  Optional kits: -Broadcom MegaRAID 9560-16i -Broadcom MegaRAID 9540-8i - ASUS PIKE II 3008 8-port HBA Card - ASUS PIKE II 3008 8-port HBA RAID Card  Storage Bays  I = internal A or S will be hot-swappable  SAS Support required an HBA/RAID card.  *SAS support (RI45, X710-A72) or 2 x Gigabit LAN ports (RI45, X710-A72) or 2 x Gigabit LAN ports (RI45, S730-AM2) 1 x Management Port (RI45)  Graphic  VGA  Aspeed AST2600 64MB  2 x USB 3.2 Gen1 ports 1 x VGA port 1 x COM port 2 x 10GbE/1GbE LAN ports (RI45, build for order) 1 x Management port (RI45)  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  Out of Band Remote Management On-Board ASMB11-iKVM for KVM-over-IP  Dimension  Net Weight Kg (CPU, DRAM & HDD not included) 27 kg	Disk Controller		,
A or S will be hot-swappable  *SAS support required an HBA/RAID card.  *SAS support required an HBA/RAID card.  Networking  LAN  2 x 10GbE LAN ports (RI45, X710-AT2) or 2 x Gigabit LAN ports (RI45, I350-AM2) 1 x Management Port (RI45)  Graphic  VGA  Aspeed AST2600 64MB  Front I/O Ports  2 x USB 3.2 Gen1 ports  Rear I/O Ports  1 x VGA port 1 x COM port 2 x 10GbE/1GbE LAN ports (RI45, build for order) 1 x Management port (RI45)  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 Software  ASUS Control Center (Classic)  Out of Band Remote Management On-Board ASMB11-ikVM for KVM-over-IP  Dimension  Net Weight Kg (CPU, DRAM & HDD not included) 27 kg  Gross Weight Kg  Gross Weight Kg  Gross Weight Kg  CPU, DRAM & HDD not included) 27 kg		SAS Controller	Optional kits: -Broadcom MegaRAID 9560-16i -Broadcom MegaRAID 9540-8i - ASUS PIKE II 3008 8-port HBA Card
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or 2 x Gigabit LAN ports (RJ45, 1350-AM2) 1 x Management Port (RJ45)  Aspeed AST2600 64MB  Front I/O Ports  2 x USB 3.2 Gen1 ports  1 x VGA port 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  Rear Switch/LED: 1 x Power Button w/LED, 1 x Location Button w/LED  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 Software  ASUS Control Center (Classic)  Out of Band Remote Management On-Board ASMB11-ikVM for KVM-over-IP  Blomension  On-Board ASMB11-ikVM for KVM-over-IP  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			
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1 x VGA port   1 x COM port   2 x 10GbE/1GbE LAN ports (RJ45, build for order)   1 x Management port (RJ45)	Graphic	VGA	Aspeed AST2600 64MB
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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 Software ASUS Control Center (Classic) 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	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:
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31.5"x17.32"x 6.87"  Net Weight Kg (CPU, DRAM & HDD not included)  27 kg  Gross Weight Kg	Solution	Out of Band Remote Management	On-Board ASMB11-iKVM for KVM-over-IP
Gross Weight Kg	Dimension		· ·
Gross Weight Kg	Net Weight Kg (CPU	, DRAM & HDD not included)	27 kg
(CPU, DRAM & HDD not included, Packing include)	Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		52 kg
	Power Supply (following different configuration by region)		2+1 Redundant 3000W 80 PLUS Platinum Power Supply
Environment Operation temperature: 10°C ~ 35°C	Environment		· · · · · · · · · · · · · · · · · · ·

