ASUS

ESC N4A-E11 Series

NVIDIA HGX A100 4-GPU Server

Form Factor	CPU Number	Memory Number
3U	**1**	**16**

ASUS ESC N4A-E11 Series was designed to accelerate application performance leveraging NVIDIA HGX A100 4-GPU baseboard. Support Single AMD Milan up to280W TDP CPU with 16 DIMM slots, ESC N4A-E11 is optimized for high performance & highest C/P ratio.

FEATURE

- Single AMD Milan Up to 280W TDP CPU
- NVIDIA HGX A100 4-GPU baseboard
- M.2 support
- 3 x PCI-E Gen4 x16(1 x OCP support)
- 4 x 3.5" Hot-swap NVME(x2)/SATA/SAS drive bays
- 1+1 redundancy 3000 Watt Titanium power supplies

Target market

- Data center
- Enterprise
- College

Industry-leading GPU technology

Implement NVIDIA HGX A100 4-GPU baseboard and adopting NVIDIA NVLink technology to make GPU to GPU communication speeds up to 200GB per second.

Thermal optimized design

Separate CPU and GPU tunnel to provide sufficient air flow even the CPUs and GPUs are running at maximum performance, enable 400W GPUs in system.

Optional liquid cooling solution

Asetek Direct-to-Chip (D2C) liquid-cooling technology achieving lower-usage effectiveness (PUE) and optimized TCO for data centers.

200Gb networking support ready

Features up to 3 x PCI-E 4.0 expansion slots for high speed networking like 200Gb per second Mellanox HDR InfiniBand smart NICs.

Enhanced Security

PFR FPGA as the platform Root-of-Trust solution for firmware resiliency Trusted Platfrom Module 2.0 (TPM 2.0) to secure hardware through integrated cryptographic keys and offer regular firmware update for vulnerabilities.

Comprehensive IT infrastructure management solution

ASMB10-iKVM and ASUS Control Center (ACC)

ESC N4A-E11

Processor Support.		1 x Socket SP3 (LGA-4094)
		Supports AMD EPYC™ 7003 series processors (up to 280W)
Core Logic		System on Chip (SoC)
GPU		GPU Baseboard Options: HGX A100 4-GPU 40GB(160GB total) 400W HGX A100 4-GPU 80GB(320GB total) 400W
Memory	**Total Slots**	16 (8-channel per CPU)
	Capacity	Maximum up to 4,096GB
	Memory Type	DDR4 3200 RDIMM/LR-DIMM/LR-DIMM 3DS
	Memory Size	64GB, 32GB, 16GB(RDIMM), 128GB, 64GB(LRDIMM), 256GB, 128GB, 64GB(LRDIMM 3D) *Refer to ASUS server AVL for the latest update
Expansion Slots	**Total Slots**	3
	Slot Type	1 x PCIe x16 slot (Gen4 x16 link, FH,HL) or OCP3.0 NIC socket (optional) 2 x PCIe x16 slot (Gen4 x16 link, LP,HL)
Storage Bays		4 x 3.5" Hot-swap Storage Bays (Backplane supports 4 x SATA/SAS/MVMe Devices) 1 x M.2 socket (Gen4 x4 link, up to 2280 module)
Networking	**LAN**	2 x 10GbE LAN ports (Intel X710-AT2) 1 x Dedicated management port (BMC AST2600)
Front I/O Ports		1 x USB 3.2 Gen1 ports
Rear I/O Ports		2 x USB 3.2 Gen1 port 2 x 10GbE LAN ports (RJ45) 1 x Management port (RJ45) 1 x VGA port 1 x COM port
Switch/LED		Front: 1 x Power button/LED, 1 x Location button/LED 1 x Reset switch 1 x HDD Access LED 1 x Message LED 2 x LAN LED Rear: 1 x Q-Code/Port 80 LED 1 x Power button/LED 1 x Location button/LED
OS Support		Please find the latest OS support from http://www.asus.com/
Management Solution	**Software**	ASUS Control Center (in-band)
	Out of Band Remote Management	ASMB10-iKVM (BMC AST2600)
Dimension		3U 823mm x 439.5mm x 130.6mm
Net Weight Kg (CPU, DRAM & HDD not included)		38 kg
Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		43 kg
Power Supply (following different configuration by region)		1+1 Redundant 3000W 80 PLUS Titanium Power Supply
Environment		Operation temperature: 10℃ ~ 35℃ Non operation temperature: -40℃ ~ 70℃ Non operation humidity: 20% ~ 90% (Non condensing)