

# ESC N4A-E11 Series

## NVIDIA HGX A100 4-GPU Server



Form Factor / 3U

CPU Number / 1

Memory Number / 16

ASUS ESC N4A-E11 Series was designed to accelerate application performance leveraging NVIDIA HGX A100 4-GPU baseboard. Support Single AMD Milan up to 280W 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

### 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 Platform 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)

### Target market

- Data center
- Enterprise
- College

# ESC N4A-E11

# SPECIFICATION

<b>Processor Support.</b>		1 x Socket SP3 (LGA-4094) Supports AMD EPYC™ 7003 series processors (up to 280W)
<b>Core Logic</b>		System on Chip (SoC)
<b>GPU</b>		GPU Baseboard Options: HGX A100 4-GPU 40GB(160GB total) 400W HGX A100 4-GPU 80GB(320GB total) 400W
<b>Memory</b>	<b>Total Slots</b>	16 (8-channel per CPU)
	<b>Capacity</b>	Maximum up to 4,096GB
	<b>Memory Type</b>	DDR4 3200 RDIMM/LR-DIMM/LR-DIMM 3DS
	<b>Memory Size</b>	64GB, 32GB, 16GB(RDIMM), 128GB, 64GB(LRDIMM), 256GB, 128GB, 64GB(LRDIMM 3D) *Refer to ASUS server AVL for the latest update
<b>Expansion Slots</b>	<b>Total Slots</b>	3
	<b>Slot Type</b>	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)
<b>Storage Bays</b>		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)
<b>Networking</b>	<b>LAN</b>	2 x 10GbE LAN ports (Intel X710-AT2) 1 x Dedicated management port (BMC AST2600)
<b>Front I/O Ports</b>		1 x USB 3.2 Gen1 ports
<b>Rear I/O Ports</b>		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
<b>Switch/LED</b>		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
<b>OS Support</b>		Please find the latest OS support from <a href="http://www.asus.com/">http://www.asus.com/</a>
<b>Management Solution</b>	<b>Software</b>	ASUS Control Center (in-band)
	<b>Out of Band Remote Management</b>	ASMB10-iKVM (BMC AST2600)
<b>Dimension</b>		3U 823mm x 439.5mm x 130.6mm
<b>Net Weight Kg (CPU, DRAM &amp; HDD not included)</b>		38 kg
<b>Gross Weight Kg (CPU, DRAM &amp; HDD not included, Packing include)</b>		43 kg
<b>Power Supply (following different configuration by region)</b>		1+1 Redundant 3000W 80 PLUS Titanium 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)



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