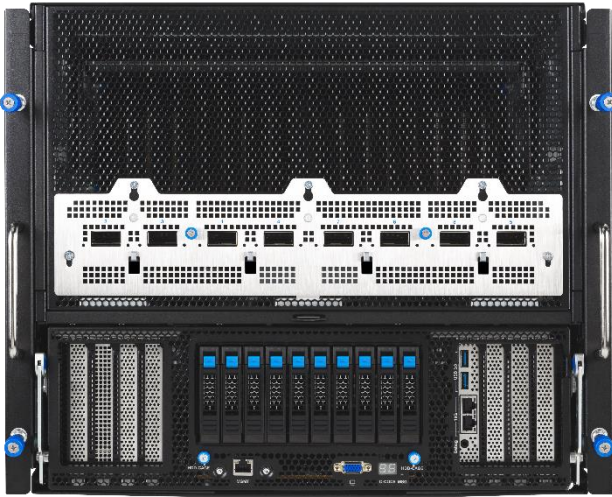


# XA NB3I-E12 NVIDIA HGX™ B300

## ASUS NVIDIA HGX Architecture: The Best Choice for Heavy AI Workloads



9U NVIDIA HGX B300 8-GPU server with dual 6<sup>th</sup> Gen Intel Xeon Scalable processors that designed for large scale of AI and HPC, 5 PCIe slots, 32 DIMM, 10 NVMe, dual 10G LAN. NIC and storage are placed close to the GPUs, use a ratio of up to 1:1 GPUs to network interface card and have GPU Direct Storage design could reduce read/write latency. XA NB3I-E12 is optimal for cultivating AI advancements for enterprise applications.

### FEATURE

- 6<sup>th</sup> Gen Intel® Xeon® Scalable Processors
- PCIe 5.0 Ready
- Powerful Performance
- Enhanced IT-infrastructure management

#### 6th Gen Intel® Xeon® Scalable Processors

Powered by 6th Gen Intel® Xeon® Scalable Processors with 8-channel, up to 6400 MHz DDR5 and support for a maximum TDP of up to 350 watts per socket

#### PCIe Gen5.0 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.

#### Powerful Performance

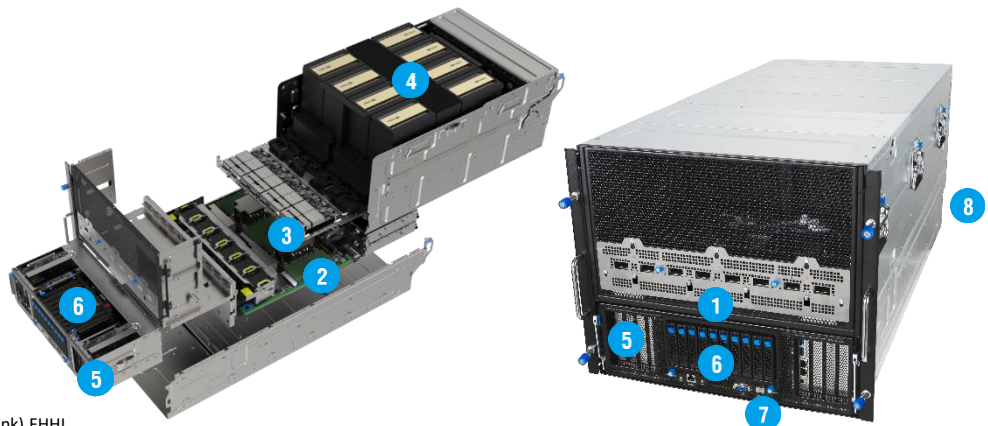
Support NVIDIA HGX B300 8-GPUs and connected with latest NVSwitch design. CX8 embedded and storage are placed close to the GPUs, use a ratio of up to 1:1 GPUs to network interface card and have GPU Direct Storage design could reduce read/write latency.

#### Enhanced IT-infrastructure management

ASUS ASMB11-iKVM remote control with ASPEED AST2600, ASUS Control Center IT management software and hardware-level Root-of-Trust solution

### Target market

- High Performance Computing
- Generative AI
- Deep Learning/Machine Learning
- Data Analysis
- Scientific Research



1. Asset Tag
2. 32 x DIMM, DDR5 6400 RDIMM/ 3DS RDIMM
3. 2 x 6<sup>th</sup> Gen Intel® Xeon® Scalable Processors
4. 8 x HGX B300 GPUs with NVLink NVSwitch
5. 4 x PCI-E x16 (Gen5 x16 link) HHHL + 1 x PCI-E x16 (Gen4 x8 link) FHHL
6. 10 x 2.5" NVMe hot-swap drive bays
7. I/O port
7. 5+5 Redundant 3200W 80 PLUS Titanium Power Supply

# XA NB3I-E12

## SPECIFICATION

<b>Processor Support</b>		2 x Socket 6th Gen Intel® Xeon® Scalable Processors
<b>Memory</b>	<b>Total Slots</b>	32 (8-channel per CPU, 16 DIMM per CPU)
	<b>Capacity</b>	Maximum up to 4 TB per CPU
	<b>Memory Type</b>	DDR5 6400 RDIMM/RDIMM 3DS (2DIMM per Channel) *Please refer to <a href="http://www.asus.com">www.asus.com</a> for latest memory AVL update
	<b>Memory Size</b>	128GB, 96GB, 64GB Intel® Optane™ persistent memory 300 series * Refer to <a href="http://www.asus.com/support">www.asus.com/support</a> for more information
<b>Expansion Slots</b>	<b>Total PCI/PCI-X/PCI-E/PIKE Slots</b>	SKU1: 5
	<b>Slot Type</b>	SKU1: 5 x PCIe Gen5 slots [PCIe Switch directly] - 4 x PCIe Gen5 x16 link - 1 x PCIe Gen5 x8 link (Raid Only) *Support PCIe x16 link support DPU ** For Raid card to connect storage
<b>Storage Bays</b>	<b>I = internal</b>	10 x 2.5" hot-swap drive bays (10 NVMe)
	<b>A or S will be hot-swappable</b>	[PCIe Switch directly] SKU1: 2 x Gen5 NVMe needs Raid card + 8 x Gen5 NVMe SKU2: 10 x Gen5 NVMe
<b>Networking</b>	<b>LAN</b>	2 x 10 Gigabit LAN ports (Intel X710-AT2 Controller) 1 x Management Port
<b>Graphic</b>	<b>VGA</b>	Aspeed AST2600 64MB

## SPECIFICATION

<b>Front I/O Ports</b>		2 x USB 3.2 ports 1 x VGA port 2 x 10GbE RJ45 LAN port 1 x RJ-45 Mgmt LAN port
<b>Switch/LED</b>		Front : 1 x Power Switch/LED 1 x Location Switch/LED 1 x Message LED 1 x Port80 LED (Q-Code) LAN 1-2 LED (on NIC module)
<b>OS Support</b>		RedHat® Enterprise Linux Rocky 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
	<b>Out of Band Remote Management</b>	On-Board ASMB11-iKVM
<b>Dimension</b>		945mm * 447mm * 394.5 mm
<b>Net Weight Kg (CPU, DRAM &amp; HDD not included)</b>		120 kg
<b>Gross Weight Kg (CPU, DRAM &amp; HDD not included, Packing include)</b>		150 kg
<b>Power Supply (following different configuration by region)</b>		5+5 3200W 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)