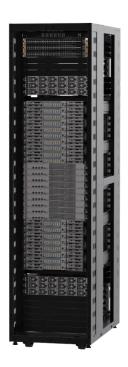
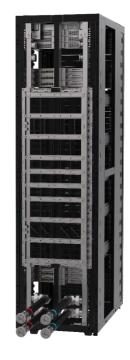




## **XA GB721-E2**

### Rack Scale Solution with NVIDIA® GB300 NVL72





XA GB721-E2 is built on NVIDIA GB300 NVL72 architecture, which integrates 36 NVIDIA Grace  $^{\text{TM}}$  CPUs and 72 NVIDIA Blackwell Ultra GPUs, delivering exceptional performance for demanding AI workloads.

- Powered by the Latest NVIDIA GB300 Grace™ Blackwell Ultra Superchips.
- Liquid-cooled, rack-scale solution that boasts 36 NVIDIA Grace<sup>™</sup> CPUs and 72 NVIDIA Blackwell Ultra GPUs.
- NVIDIA® NVLink<sup>TM</sup> technology within single domain.

#### **Cooling Solutions**

 Features a liquid cooling system that reduces energy consumption and operational costs—reportedly achieving a lower total cost of ownership (TCO).

#### **Connectivity and Bandwidth**

NVIDIA® NVLink<sup>TM</sup>: Allowing 9 switches to interconnect the NVIDIA® NVLink<sup>TM</sup> ports on each of the 72 NVIDIA Blackwell Ultra GPUs within a single NVIDIA® NVLink<sup>TM</sup> domain as a single massive GPU with a switching capacity of 14.4TB/s. Significantly surpassing PCle Gen5 capabilities.

#### **Features**

- ASUS 1st rack scale solution with NVIDIA GB300 NVL72
- NVIDIA® NVLink<sup>TM</sup> technology connectivity

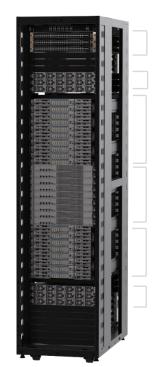
#### **Target Application**

- AI/ML
- LLM training

## **XA GB721-E2 (Rack)**

Rack	48RU NVIDIA MGX <sup>TM</sup> Rack Compliant
Rack Configuration	1 x NVIDIA MGX™ 48RU Rack 1 x 1400A Rack Busbar 1 x Rack Manifold (L&R) 4 x Cable Cartridges 2 x TOR SN2201 (1GBe) 6 or 8 x 33kW Power Shelves* 18 x Compute Trays 9 x NVIDIA® NVLink™ Switch trays
Dimension	2236mm x 600mm x 1068mm

<sup>\*</sup>For the configuration with 8 \*power shelves, N+1 redundancy will be implemented.



2 x SN2201 (1GBe)

3 x 1RU Power Shelf 33KW

10 x Compute Trays

9 x NVIDIA® NVLink $^{\rm TM}$  Switch Trays

8 x Compute Trays

3 x 1RU Power Shelf 33KW





# XA GB721-E2 (Compute Tray)

# **SPECIFICATION**

Processor		$2 \times \text{NVIDIA GB300 Grace}^{\text{TM}}$ Blackwell Ultra Superchips
Ва	CPU Memory Size	[Per GB300] 480 GB
	Bandwidth	Up to 512 GB/s
	Memory Type	LPDDR5X with ECC, Co-Packaged
	Welliory Type	LEDDROX With Ecc, co-rackaged
	GPU Memory Size	[Per GB300]
		576 GB
	Bandwidth	Up to 16 TB/s
	Memory Type	HBM3e
Expansion Slots	Total PCIe Slots	N/A
Storage Bays		8 x E1.S hot-swap drive bays
		1 x M.2 Gen5 x4
Networking LAN	LAN	4 x NVIDIA® ConnectX®-8 800GbE OSFP ports
		1x NVIDIA BlueField®-3 DPUs (B3240)
		1 x Management LAN
Front I/O Ports		1 x USB3.2 Gen1 ports
		1 x BMC Management Port 1 x Power Button /w LED
		1 x UID Button /w LED
		1 x miniDP
		1 x PXE 1G NIC
Rear I/O Ports		4 x NVIDIA® NVLink <sup>TM</sup> Connector
		2 x Liquid Inlet/Outlet UQD04
Switch/LED		Front:
		1 x Power /LED
		1 x Location Switch/LED 1 x Reset
		1 x Message LED
		2 x LAN LED
		1 x NVIDIA® NVLink <sup>TM</sup> LED
		8 x E1.S LED
OS Support		*Diago find the letest OS support from
		*Please find the latest OS support from https://www.asus.com/event/Server/OS support list/OS.html
Management	Software	ASUS Control Center
Solution	Out of Band Remote Management	On-Board ASMB11-iKVM for KVM-over-IP
Dimension		766mm x 438mm x 43.6mm (1RU)
Gross Weight Kg		28 kg
Power Supply		50 V Busbar

Note