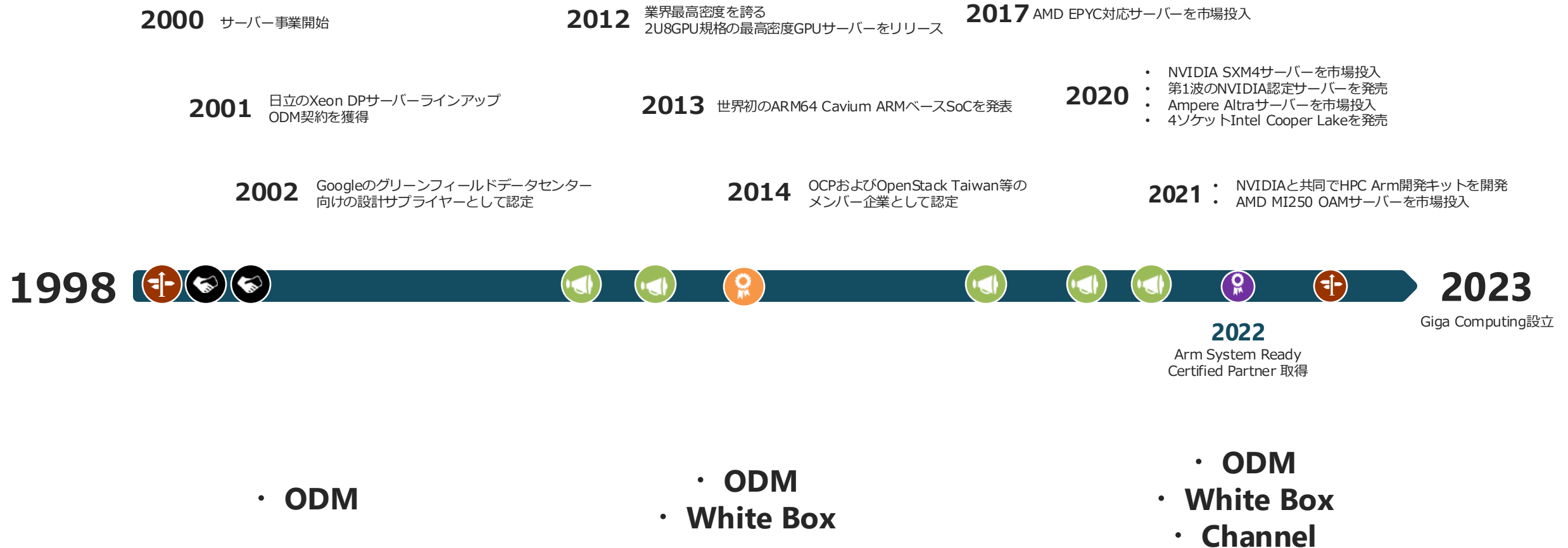


Giga Computing Introduction

GIGABYTE™



1998年事業部開始し、2023年分社し、Gigacomputing設立へ



GIGABYTE™



OCP
APAC
SUMMIT

August 5–6, 2025 | Taipei, Taiwan

Join us at Booth #S01

DOA3-ST0
TO25-ZU4-AA01
TO25-ZU5-AA01
TO25-ZM3-LA01
TO25-ZM4-LA01
TO25-S12-AA01
TO24-JD1
TO86-ZX1?
S9301-32DB (Ufi)

事前登録制 参加費無料

AMD JAPAN Partner Forum 2025

AMD 
together we advance AI

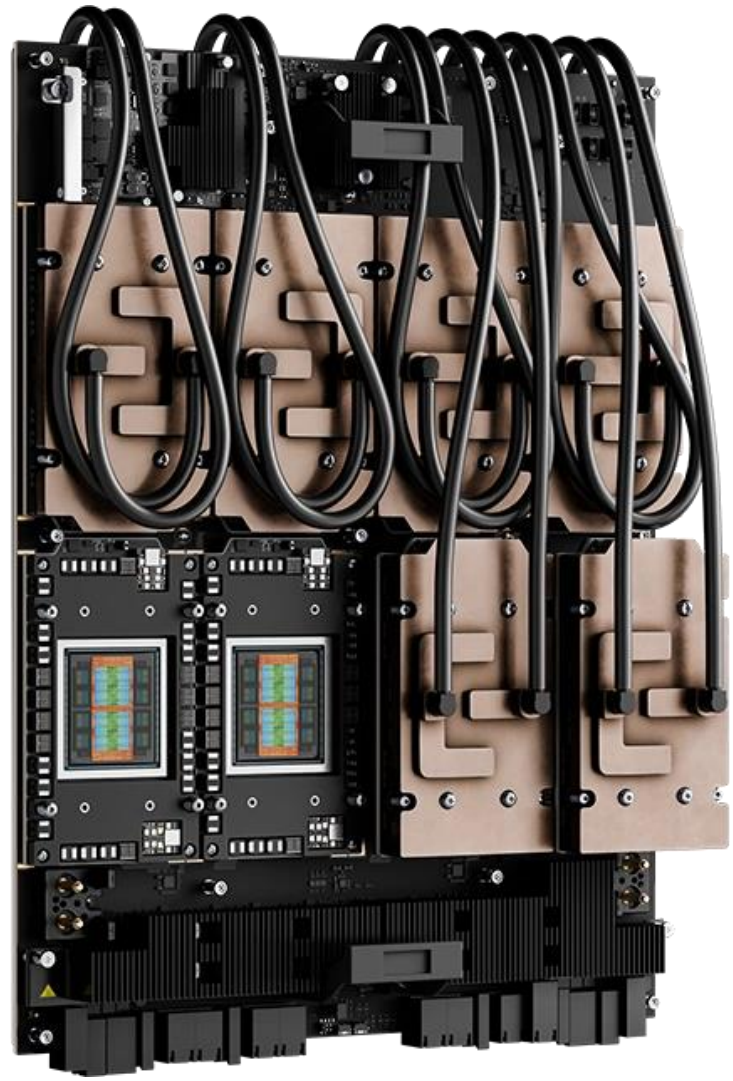
日程: 2025年7月23日(水) 13:00～ 受付開始・展示コーナーオープン
会場: 東京国際フォーラム
〒100-0005 東京都千代田区丸の内3丁目5-1

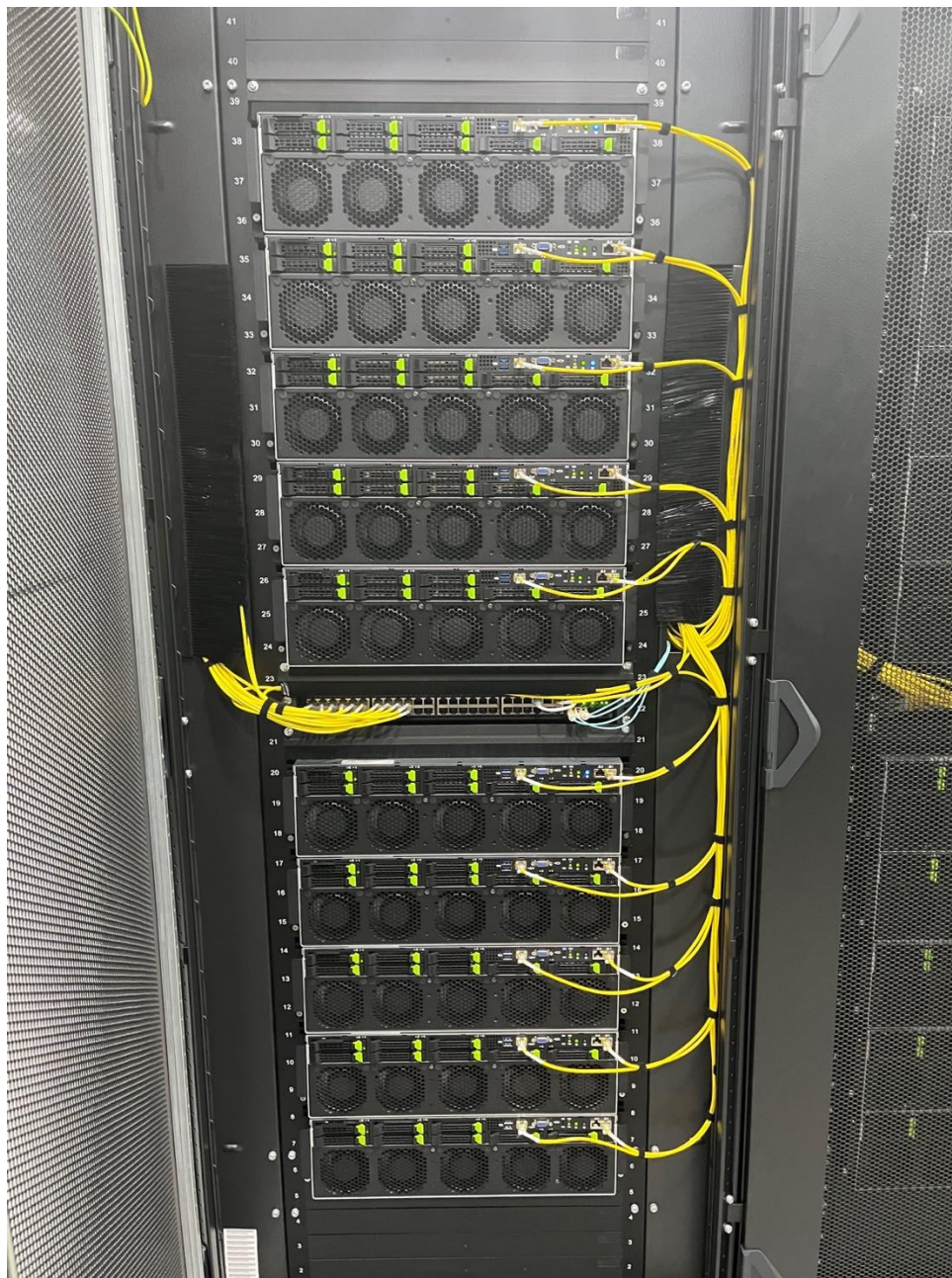
ご参加対象 販売パートナー様、OEMパートナー様 定員 250名

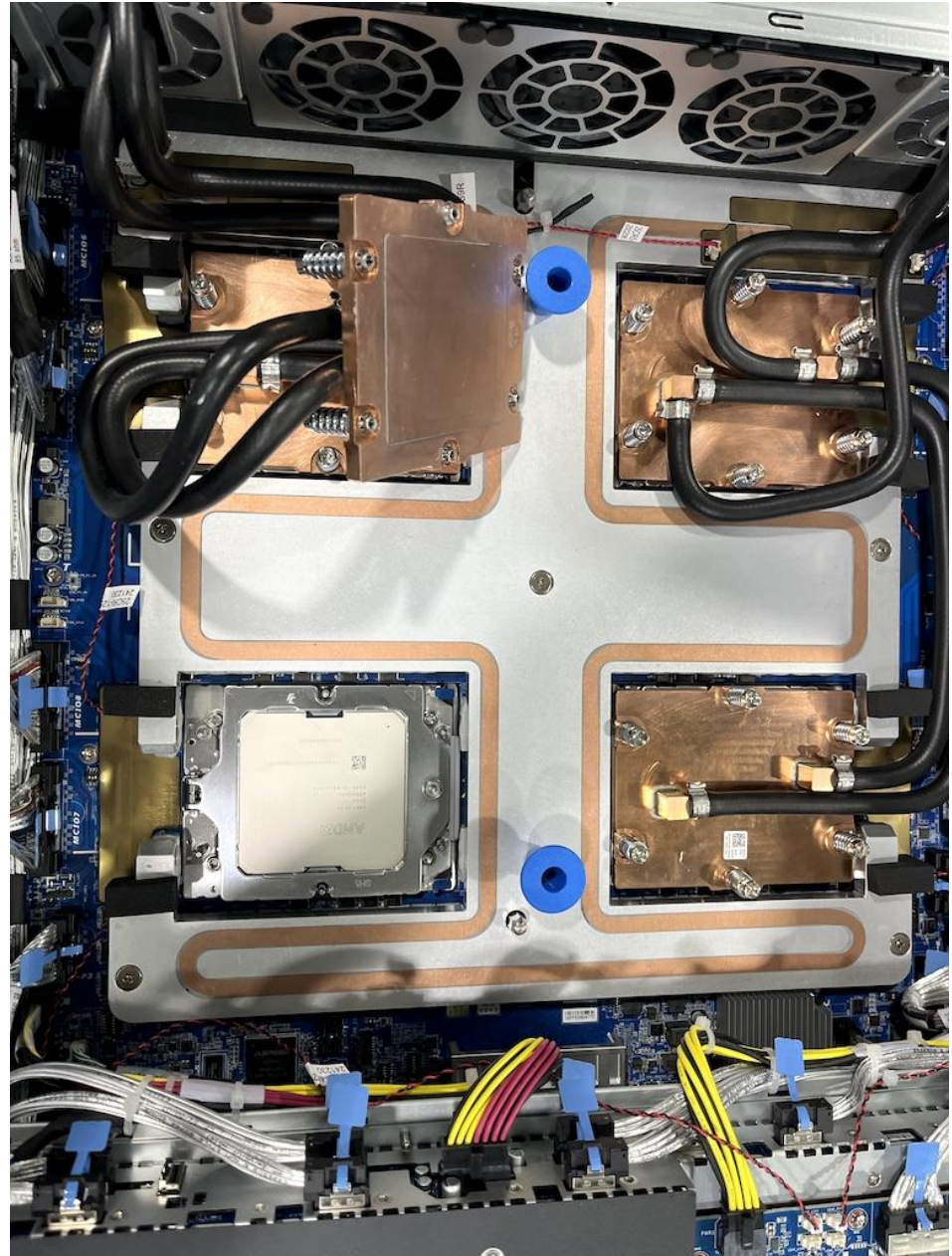
MI355X OAM



Liquid-cooled
8 x AMD Instinct™ MI355X OAM GPUs







2025/7/10

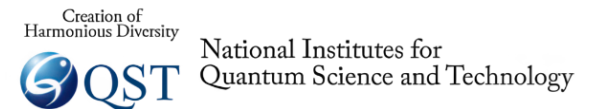
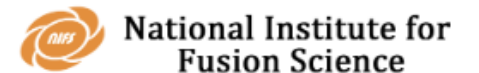
国内導入事例【核融合科学研究所・量子科学技術開発機構 様】

- AMD MI300シリーズ搭載した最新GPUサーバー製品
- DLC・水冷方式対応の3U規格GPUサーバーと3U4ノード規格のマルチノードサーバー製品

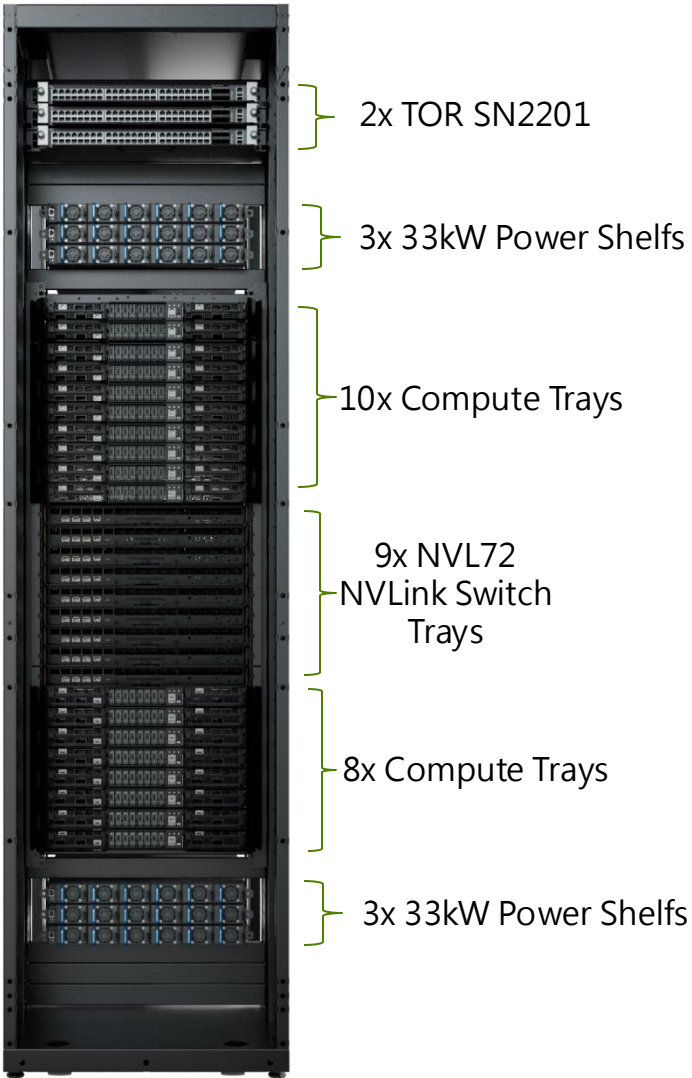


Powering the Next-Generation Supercomputing System

The National Institutes for Quantum Science and Technology (QST) in Japan is spearheading a revolutionary supercomputing system for fusion science research. This cutting-edge system integrates GIGABYTE's liquid-cooled H374-A80, equipped with Intel Xeon 6900P-series processors and MRDIMMs, and G383-R80, featuring AMD Instinct MI300A. Utilizing NVIDIA QM9700 InfiniBand switches for connectivity, the system achieves unprecedented high-density computing and stands as the first of its kind in Japan.



NVIDIA GB200 NVL72



Rack	Compute Tray	NVSwitch	Power Shelf
Total 1x NVL72 Rack	Each Rack 18x 1RU Compute Tray	Each Rack 9x 1RU NVL72 NVLink Switch Tray	Total 6x 1RU Power Shelf Tray
With ORv3 48RU Standard	Each Compute Tray 2x Bianca Compute board	Each NVL72 Switch 2x NVLink ASIC Chip	Each 6x 5.5kW PSU
Support 1400A Busbar Design	1x Bianca board 1x CPU + 2x GPU With DLC Cold plate	Each NVL72 Switch 9x MNNVL Connector	Rack 3+3 Top and Bottom PSU Redundancy
Support Liquid Manifold Up to 116 LPM/~120kW			
Around 132kW TDP			

DLB2-CB1 SPEC.

➤ GB200 LC Per Rack(72 GPU single rack)

- **Server: 18x Compute Trays & 9x Switch Trays**
- **Per compute Tray : Liquid 5.7 kW + Air 0.7 kW**
- **Per Switch Tray : Liquid 1.2 kW + Air 0.4 kW**
- **Per Rack Total : $5.7 \times 18 + 1.2 \times 9 = 113.4$ kW (liquid cooling)**
- **Air cooling 17 kW**
- **Minimum flow rate requirements: 130 LPM @45C Secondary Temp, 4°C approach**
- **Floor Loading : 1361 kg/m2**



XN14-CB0-LA01 Compute Tray

- 2 x GB200 Grace Blackwell Superchip
- 2 x 384 GB HBM3e GPU memory with 16 TB/s bandwidth
- 2 x 480 GB LPDDR5X CPU memory with 152 GB/s bandwidth
- 8 x E1.S Gen5 NVMe drives



Management Switches

3 x 33kW Power Shelves

10 x Compute Trays
1U XN14-CB0-LA01 Server:

9 x NVLink Switch Trays
• 1U NVLink Switch tray
• 144x Nvlink ports per tray
• 5th gen NVLink with 1.8TB/s GPU-GPU interconnect

8 x Compute Trays
GIGABYTE XN14-CB0-LA01 Server
• 2 x NVIDIA Grace CPUs
• 4 x NVIDIA Blackwell GPUs
• 8 x E1.S Gen5 bays

3 x 33kW Power Shelves

Coolant Distribution Unit (CDU), optional

DLB2-CB1 SPEC



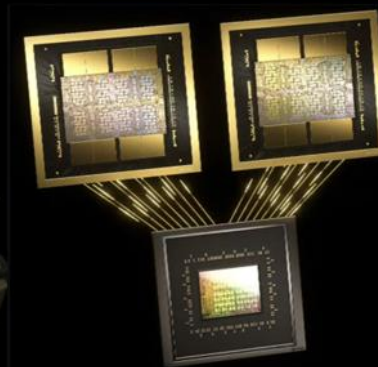
- 3 x 1Gb Management Switch
- 3 x 1RU Power Shelf
- 10 x Compute Trays
- 9 x Nvlink Switch Trays
- 8 x Compute Trays
- 3 x 1RU Power Shelf



2x BLACKWELL GPUs
1x GRACE CPU

BUILDING BLOCKS OF THE
GB200 SUPERCHIP

超級晶片GB200的建構模組

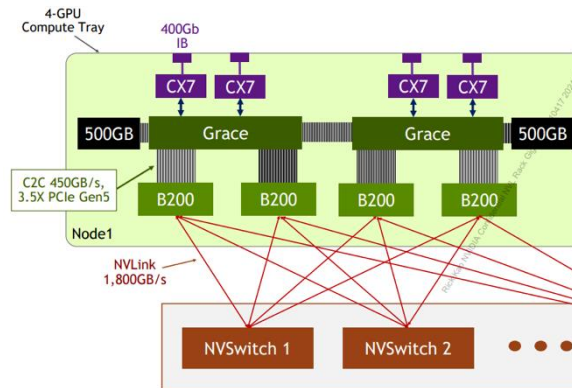
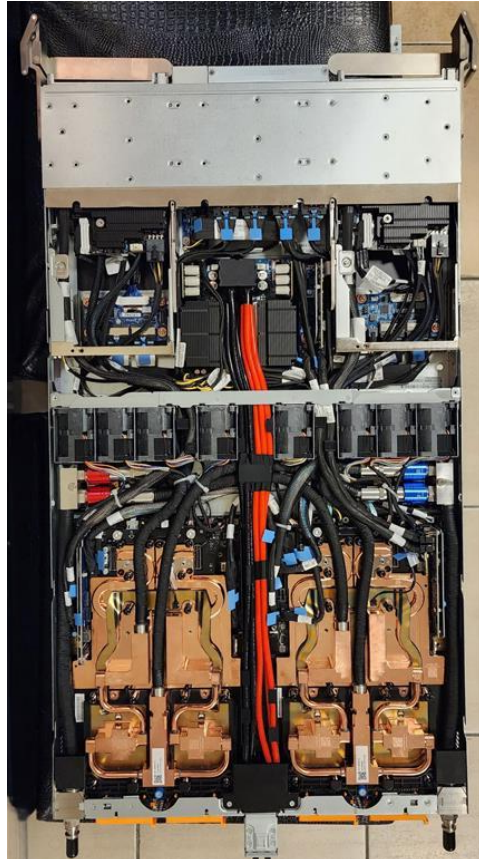


NVLINK SWITCH SYSTEM

130TB/s OF AGGREGATE BANDWIDTH

130TB/秒 聚合頻寬

Computing Tray and System SPEC



Feature	Specification
Dimension	1RU Rack
Mother Board Spec	NV Proprietary NVIDIA C2G2 DP platform (Bianca), up to 2700W TDP, thermal solution liquid cooling
Memory	CPU: TBD Channel LPDDR5, Size: 512GB GPU: HBM3 96GB On NVIDIA Module
Drive Bay	8 x E1.S NVME HDD
Expansion Slot	1 x Low-profile x16 PCIe Gen5 MD2 Slot from CPU0 (front side) 1 x Low-profile x16 PCIe Gen5 MD2 Slot from CPU1 (front side)
Power Supply	ORV3 54V 1400A BUS BAR
System Cooling	8 x 4056 FAN for system + liquid cool for CPU+GPU
Front Panel	1 x MLAN 1 x Mini DP port 1 x USB3.0 1 x I210 1G port Power On/Off SW; Reset Button; ID SW System Status LED; HDD Status LED
Rear side	NVLINK connector for cable cartridges
Backplane	E1.S HDD Backplane

DLB2-CB1 NVLINK

**GB200 NVL72
Backplane**



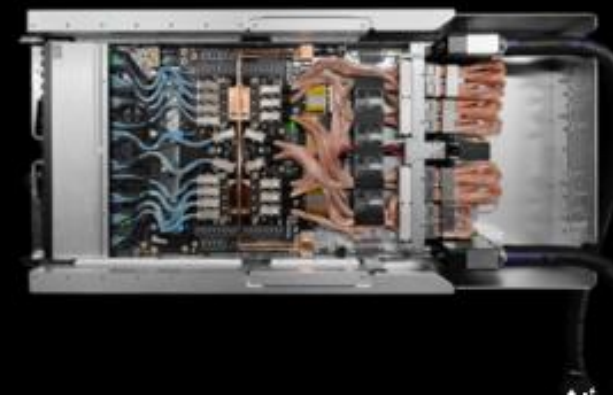
**NVLink
Cartridge**



**NVLink
Cables**



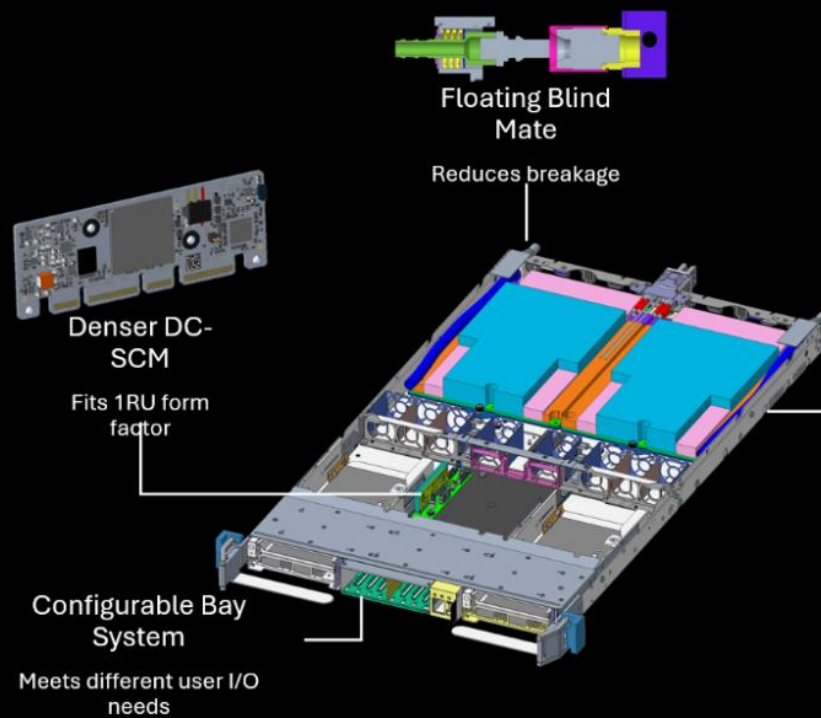
**NVLink
Switch Tray**



Rack Busbar

Rack Manifold

MGX 1RU LC System

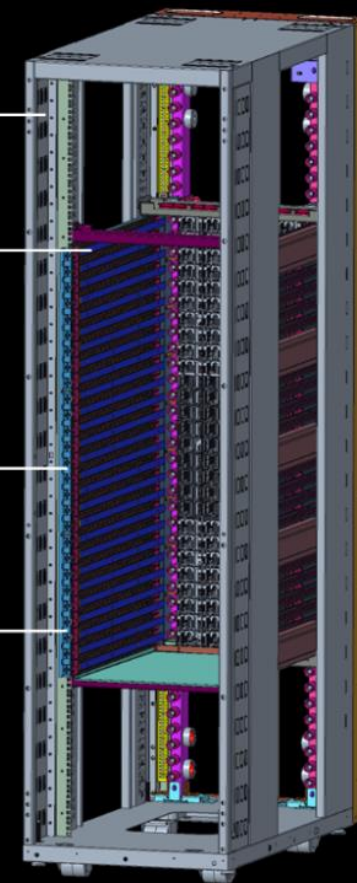


Larger Cable Tray
Fits high networking cable density

Blind Mate Slide Rails
Enables NVLink and LC blind mate connections

Latch Ejector Bar
Withstands 6,000 lb of mating force

GB200 NVL72



Front View

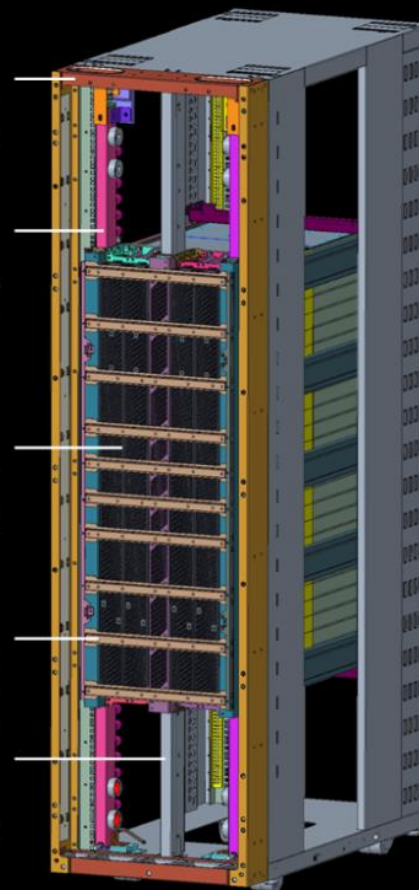
Rear Rack Extenders
Protects cable bracings and manifold fittings

Blind Mate Manifold
Supports 130 KW of cooling capacity

4x Cable Cartridges
Houses 5,000 NVLink cables

Rear Rack Stiffeners
Withstands 6,000 lb of mating force

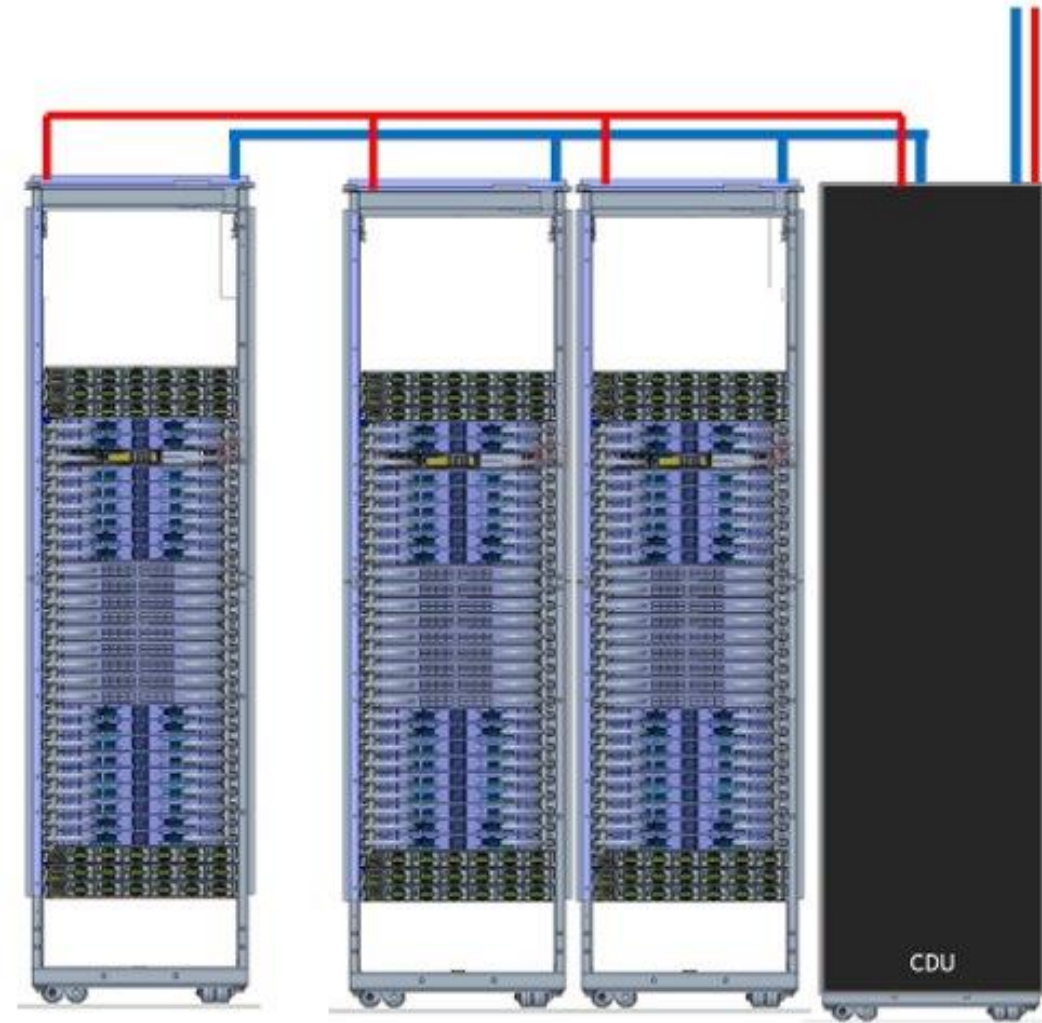
1,400-amp Bus Bar
Powers higher compute density



Rear View

GB200 NVL72 CDU Deployment

Liquid to liquid

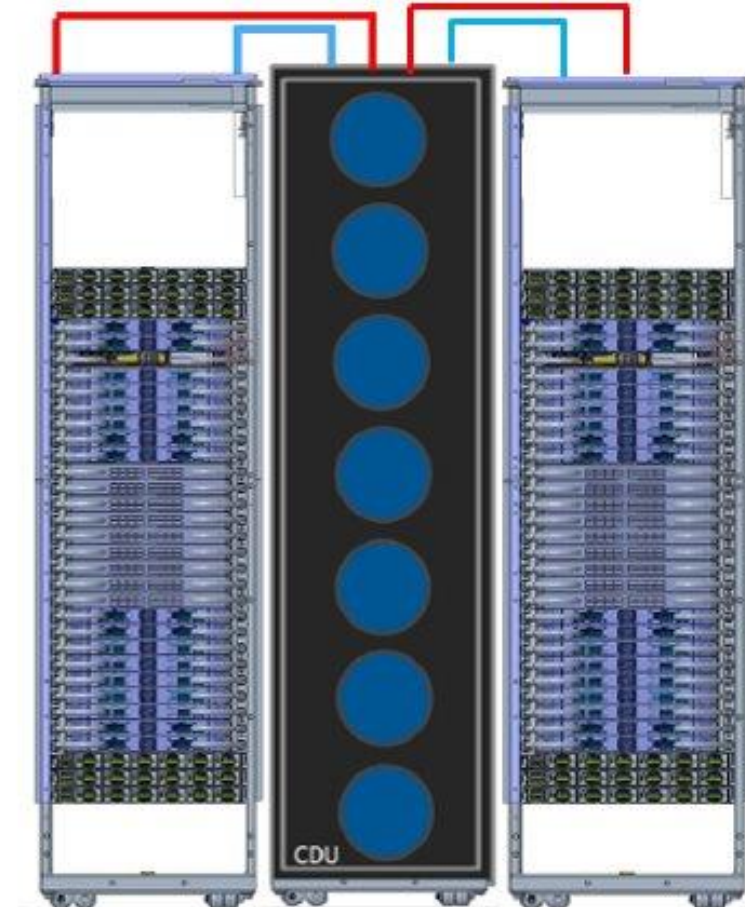


In row CDU



In rack CDU

Liquid to air



Sidecar

Please check ...

MGX Accelerated Computing Rack and Tray Specification Revision 1.1

