RS720QN-E11-RS24U

2U 4-Node Server with NVIDIA Grace CPU Superchip

arm SystemReady
SR CERTIFIED V2.4

NVIDIA.

2U | TDP 500W | PCI EXPRESS 5.0
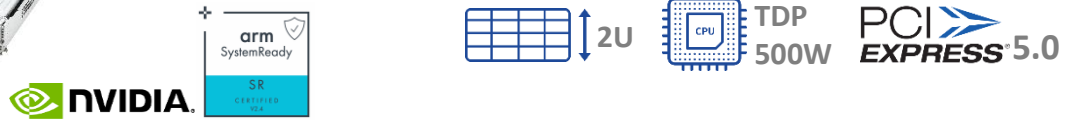
ASUS RS720QN-E11-RS24U

2U Multi-Node server, Build for High Performance and compute-intensive workloads.

Features

- ASUS 1st ARM-Based server with NVIDIA Grace CPU Superchip
- Per Node 480G Memory capacity
- NVIDIA NVLink®-C2C bandwidth up to 900G/s
- Up to 960 GBs of LPDDR5X memory with error-correction code (ECC)

Target Market

- Cloud Computing
- Enterprise & HPC Application

NVIDIA Grace CPU Superchip with NVIDIA NVLink®

RS720QN-E11 is built on NVIDIA Grace CPU Superchip with high cores density deliver up to 144 Arm Neoverse V2 CPU cores with Scalable Vector Extensions (SVE2)
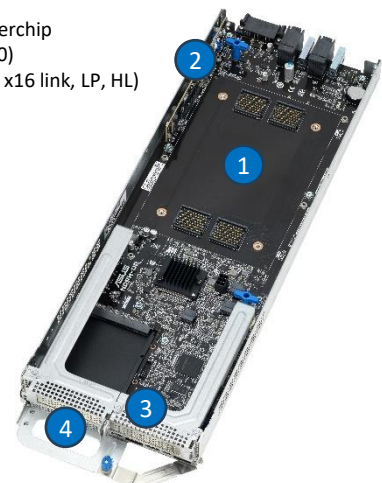
Cooling Solutions

- Provide Air-cooled and liquid-cooled (D2C) achieving lower power-usage effectiveness (PUE) and optimized TCO for data centers.

Comprehensive IT infrastructure management solution

- ASMB11-iKVM and ASUS Control Center (ACC)
- Features an embedded iKVM module and is bundled with ASUS Control Center to provide comprehensive out-of-band and in-band management.

1. NVIDIA Grace CPU Superchip
2. 2 x M.2 Gen5 x4 (22110)
3. 2 x PCIe x16 slot (Gen5 x16 link, LP, HL)
4. 1 x OCP 3.0

RS720QN-E11-RS24U

SPECIFICATION

Processor		**[Per Node]** 1 x NVIDIA Grace CPU Superchip (TDP 500W with Memory)
Memory	**Memory Size**	480GB On-module memory options
	Bandwidth	Up to 1TB/s
	Memory Type	LPDDR5X with ECC, Co-Packaged
Expansion Slots	**Total PCIe Slots**	12
	Slot Type	**[Per node]** **Rear:** SKU1: 2 x PCIe Gen5 x16 slots (HHHL) + 1 x OCP3.0 SKU2: 1 x PCIe Gen5 x16 slots (FHHL)_BF3 + 1 x OCP3.0
Storage Bays		24 x 2.5" hot-swap drive bays (NVMe)* **[Per node]** 2 x M.2 Gen5 x4 (2280)
Networking	**LAN**	**[Per Node]** 1 x 1Gb/s LAN ports (Intel® I210) 1 x Management port
Graphic		AST2600 64MB
Front I/O Ports		N/A
Rear I/O Ports		**[Per Node]** 1 x USB3.2 Gen1 ports 1 x 1 Gbe LAN ports (RJ45) 1 x Management port (RJ45) 1 x Mini DP port
Switch/LED		**[Per node]** **Front:** 1 x Power Switch/LED 1 x Location Switch/LED 1 x Message LED 1 x LAN LED 1 x M.2 LED **Rear:** 2 x LAN LED
OS Support		•Ubuntu 22.04 •RHEL 9.2: •SLES 15 SP5 *Please find the latest OS support from https://www.asus.com/event/Server/OS_support_list/OS.html
Management Solution	**Software**	ASUS Control Center
	Out of Band Remote Management	On-Board ASMB11-iKVM for KVM-over-IP
Dimension		800mm x 444mm x 88.15mm (2U)
Net Weight Kg (CPU, HDD …etc not included)		36 kg
Gross Weight Kg **(CPU, HDD …etc not included, Packing included)**		44 kg
Power Supply		2+0 or 1+1 Redundant*** 3000W/3600W 80 PLUS Titanium CRPS Power Supply
Environment		Operation temperature: 10℃ ~ 30℃ Non operation temperature: -40℃ ~ 70℃ Non operation humidity: 20% ~ 90% (Non condensing)
Note		*Would have config limitations to support BF3, please contact your sales representative for more information. **Operating temperature should be under 25°C to support 24 x NVMe. ***PSU redundancy would base on your configuration.