

RS720QN-E11-RS24U

2U 4-Node Server with NVIDIA Grace CPU Superchip



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
- Optional for 240G or 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

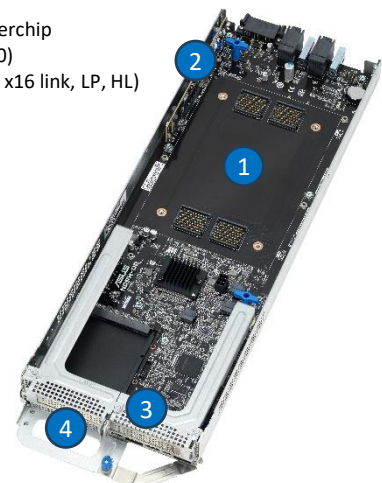
- Provide Air-cooled and liquid-cooled (D2C) achieving lower power-usage effectiveness (PUE) and optimized TCO for data centers.

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



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SPECIFICATION

Processor		[Per Node] 1 x NVIDIA Grace CPU Superchip (TDP 500 W with Memory)
Memory	Memory Size	240GB, 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 (LPHL) + 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 (22110)
Networking	LAN	[Per Node] 1 x 1Gb/s LAN ports (Intel® I210) 1 x Management port
Graphic		AST2600 64MB
Security		TPM-SPI module (optional) PFR module (optional)
Front I/O Ports		N/A
Rear I/O Ports		[Per Node] 1 x USB3.2 Gen1 ports 1 x 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		<ul style="list-style-type: none"> •Ubuntu 22.04 •RHEL 9.2: •SLES 15 SP5 <p>*Please find the latest OS support from https://www.asus.com/event/Server/OS_support_list/OS.html</p>
Management Solution	Software	ASUS Control Center (Classic)
	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		1+1 Redundant 3000W/3600W 80 PLUS Titanium CRPS-R Power Supply
Environment		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing)