RS720QN-E11-RS24U
2U 4-Node Server with NVIDIA Grace CPU Superchip

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)

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.

Target Market
• Cloud Computing
• Enterprise & HPC Application

Features
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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# RS720QN-E11-RS24U

## Processor

[**Per Node**] 1 x NVIDIA Grace CPU Superchip (TDP 500 W with Memory)

## Memory

<table>
<thead>
<tr>
<th>Memory Size</th>
<th>240GB, 480GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-module memory options</td>
<td>Up to 1TB/s</td>
</tr>
<tr>
<td>Memory Type</td>
<td>LPDDR5X with ECC, Co-Packaged</td>
</tr>
</tbody>
</table>

## Expansion Slots

<table>
<thead>
<tr>
<th>Total PCIe Slots</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slot Type</td>
<td>[<strong>Per node</strong>] 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</td>
</tr>
</tbody>
</table>

## Storage Bays

[**Per Node**] 24 x 2.5” hot-swap drive bays (NVMe)

## Networking

<table>
<thead>
<tr>
<th>LAN</th>
<th>1 x 1Gb/s LAN ports (Intel® I210)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 x Management port</td>
</tr>
</tbody>
</table>

## Graphic

AST2600 64MB

## Security

TPM-SPI module (optional)

## Front I/O Ports

N/A

## Rear I/O Ports

<table>
<thead>
<tr>
<th>[<strong>Per Node</strong>]</th>
<th>1 x USB3.2 Gen1 ports</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 x Gbe LAN ports (RJ45)</td>
</tr>
<tr>
<td></td>
<td>1 x Management port (RJ45)</td>
</tr>
<tr>
<td></td>
<td>1 x Mini DP port</td>
</tr>
</tbody>
</table>

## Switch/LED

<table>
<thead>
<tr>
<th>[<strong>Per node</strong>] Front:</th>
<th>1 x Power Switch/LED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 x Location Switch/LED</td>
</tr>
<tr>
<td></td>
<td>1 x Message LED</td>
</tr>
<tr>
<td></td>
<td>1 x LAN LED</td>
</tr>
<tr>
<td></td>
<td>1 x M.2 LED</td>
</tr>
<tr>
<td>Rear:</td>
<td>2 x LAN LED</td>
</tr>
</tbody>
</table>

## 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 (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)