



# RS720Q-E11-RS8U

### **Great Scalability and High Performance Computing (HPC)** Multi-Node Server with Adavanced Air Cooling Solution











ASUS RS720Q-E11-RS8U is the ideal multi-node server powered by 5th Gen Intel® Xeon Scalable processors, with each node supporting up to 16 DIMM, two PCIe® 5.0 slot and two M.2, and a total of eight NVMe/SAS/SATA drives.

#### **FEATURE**

- Powered by dual-socket 5th Gen Intel Scalable
- Multi-Node Server with Immersion Cooling Solution
- Two PCIe 5.0 x16 slot module per node
- 8 x 2.5" Hot-swap Drive Bays support 8 x NVMe
- 3000W 80 Plus® Titanium power supplies
- Onboard ASUS ASMB11-iKVM
- ASPEED AST2600 controller

#### 5<sup>th</sup> Gen Intel Xeon Scalable processors

The RS720Q-E11-RS8U is built with the latest Intel® Xeon® Processor Scalable processors with DDR4 Memory up to 5600MHz Family with 16 DDR5 Memory up to 5600MHz, and designed for the demand of high scalability, high density computing, and wide range of existing and emerging workloads.

### **Advanced Air Cooling Solution**

Advantages of Extended Air Volume Air Cooling (EVAC HS) can extend air volume and increase the airflow over the heat source, enhancing heat transfer and quickly dissipating heat for better overall cooling performance for high performance computing (HPC).

#### PCIe 5.0 Ready

PCI Express® (PCIe®) 5.0 delivers 16 GT/s bandwidth, which is double the speed of PCIe 4.0, offering lower power consumption, better lane scalability and backwards compatibility.

#### **Enhanced Security**

PFR FPGA as the platform Root-of-Trust solution for firmware resiliency Trusted Platform Module 2.0 (TPM 2.0) to secure hardware through integrated cryptographic keys and offer regular firmware update for vulnerabilities.





### RS720Q-E11-RS8U

## **SPECIFICATION**

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Processor Support		2 x Socket E (LGA 4677) per Node	
		4th Gen Intel® Xeon® processor Scalable family 5th Gen Intel® Xeon® processor Scalable family (Air cool with EVAC up to 270W, with STD HSK up to 205W) UPI 11.2 GT/s	
Core Logic		Intel® C741 PCH	
Memory	Total Slots	16 (8-channel per CPU, 8 DIMM per CPU)	
	Capacity	Maximum up to 4096GB per Node	
	Memory Type	DDR5 5600/5200/4800/4400/4000 RDIMM/RDIMM 3DS (1DIMM per Channel) *Refer to Asus server AVL for the latest update	
	Memory Size	64GB, 32GB, 16GB RDIMM 256GB, 128GB RDIMM 3DS * Refer to www.asus.com/support for more information	
<b>Expansion Slots</b>	Total PCI/PCI-X/PCI-E/PIKE Slots	Per Node:	
	Slot Type	2 x PCI-E x16 (Gen5 x16 link), HHHL (CPU1) 2 x M.2 PICe Gen4 x2 link or SATA (CPU1)	
Disk Controller	SATA Controller	The Same as SAS Controller	
	SAS Controller	Per Node: Broadcom SAS3008 (Support RAID 0, 1) - 2 x SAS 12Gb/s ports or - 2 x SATA 6Gb/s ports	
	NVMe Controller	The Same as SAS Controller	
Storage Bays	I = internal A or S will be hot-swappable	8 x 2.5" Hot-swap Storage Bays (NVMe Supported)	
Networking	LAN	Per Node: 2 x Intel X710-AT2 Gigabit LAN Controller 1 x Management Port	
Graphic	VGA	Aspeed AST2600 64MB	
Front I/O Ports		N/A	
Rear I/O Ports		Per Node: 2 x USB 3.1 Ports 1 x VGA Port 1 x RJ-45 GbE LAN Ports 1 x RJ-45 Management Port	
Switch/LED		Per Node: Rear:  1 x Power Switch/LED  1 x Q-Code/Port 80 LED Front:  1 x Power Switch/LED  1 x Location Switch/LED  1 x Message LED  2 x LAN LED	
OS Support		Please find the latest OS support from http://www.asus.com/	
Management	Software	ASUS Control Center (Classic)	
Solution	Out of Band Remote Management		
Dimension		800mm x 444mm x 88mm (2U) 31.5" x 17.48" x 3.46"	
Net Weight Kg (CPU, DRAM & HDD not included)		35.5 Kg	
Gross Weight Kg (CPU, DRAM & HDD not included, Packing included)		41.5 Kg	
Power Supply (following different configuration by region)		1+1 Redundant 3000W 80 PLUS Titanium Power Supply Rating: 220-240 Vac, 15.5A (x2), 50-60Hz, Class I * 1+1 Redundant mode only supports CPUs under 205W	
Environment		Operation temperature: $10^{\circ}$ C $\sim$ 35°C Non operation temperature: $-40^{\circ}$ C $\sim$ 70°C Non operation humidity: $20\% \sim 90\%$ (Non condensing)	