ASUS

RS720A-E13 series

Scalable, High Performance 2U Server

EPYC

Form Factor / **2U**   CPU Number / **2**   Memory Number / **24**

ASUS RS720A-E13 series is a server powered by AMD 9005 processors that supports up to 24 DIMMs, three dual-slot GPU, 8/12/24 NVMe, ten expansion slots and dual M.2 and ASUS ASMB12-iKVM.

FEATURE

- Powered by dual AMD 9005 processors, with DDR5 RDIMM up to 6000MHz 1DPC
- CPU maximum TDP up to 500W
- GPU-optimized design allows three dual-slot GPU for AI workloads and high performance computing(HPC).
- Up to 10 expansion Gen5 slots

AMD next Gen 9005 processors

The RS720A-E13 series is built with the latest AMD 9005 Processor, with 24 DDR5 RDIMM up to 6000 MHz (1DPC), delivering exceptional performance and efficiency across the widest range of workloads.
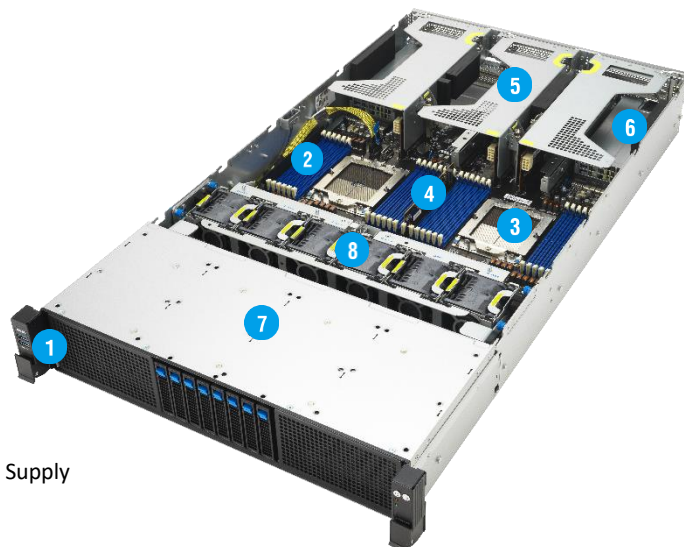
DC-MHS architecture

RS720A series built with the modular and scalable DC-MHS architecture provide seamless integration and optimization, making them ideal for modern data centers and diverse IT environments.

GPU optimized

RS720A-E13 is optimized for up to 3 dual-slot GPU support, such as NVIDIA H100 NVL, efficiently handling demanding graphical and computational tasks. With AMD next Gen processors, this server can manage multiple processes simultaneously, ensuring rapid data transfer and improving response times.

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.

1. 1 x Asset Tag
2. 24 x DIMM slots (DDR5 up to 6000)
3. 2 x AMD EPYC™ 9005 Series
4. 2 x DIMM.2 (Up to 22110)
5. 10 x Expansion Slots (Gen5 x16)
6. 1+1 Redundant 3200W/2700W 80 PLUS Titanium Power Supply
7. 24/12/8 x 2.5" or 12 x 3.5" Hot-swap Storage Bays
8. 6 x 6056 Tool-less hot-swap fan modules

SPECIFICATION

Model Name		RS720A-E13-RS8U (Non-GPU supported)	RS720A-E13-RS8G (GPU supported)
Processor Support		2 x AMD 9005 processors (Air-cooled w/ 2U EVAC HS up to TDP **500W**) *TDP support by configuration.	2 x AMD 9005 processors (Air-cooled w/ 1U EVAC HS up to TDP **400W**) *TDP support by configuration.
Core Logic		(INTEGRATED I/O – NO CHIPSET)	
Memory	**Total Slots** **Capacity** **Memory Type** **Memory Size**	24x DDR5 DIMM slots, up to 6000MHz(1DPC) (12-channel per CPU, 12 DIMM per CPU) Maximum up to 3TB DDR5 6400/5600 RDIMM 128GB, 96GB, 64GB *Refer to Asus server AVL for the latest update	
Expansion Slots	**Total PCI/PCI-X/PCI-E/PIKE Slots** **Slot Type**	**Total 10 Expansion slots** 6 x PCIe Gen5 x8 or 3 x PCIE Gen5 x16 (FHFL) 2 x PCIe Gen5 x16 (FHHL) 2 x OCP3.0 Gen5 x16	
Disk Controller	**SATA Controller**	2 x DIMM.2 Gen3 x4 (22110, 2280, 2260) **Optional kits:** Broadcom HBA CARD 9500-16I Broadcom Mega RAID CARD 95XX series *Refer to Asus server AVL for the latest update	
	SAS Controller	**Optional kits:** Broadcom HBA CARD 9500-16I Broadcom Mega RAID CARD 95XX series *Refer to Asus server AVL for the latest update	
Storage Bays	**I = internal** **A or S will be hot-swappable**	8x 2.5" hot-swap drive bays Support 8x NVMe/SATA/SAS* *HBA/ RAID card is required to support SAS hard drives	
Networking	**LAN**	1 x Management Port	
Graphic	**VGA**	Aspeed AST2600 64MB	
Front I/O Ports		2 x USB 3.2 Gen1 ports	
Rear I/O Ports		2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Mgmt. LAN port 1 x Debug port	
Switch/LED		Rear Switch/LED: 1 x Power switch 1 x Location switch/LED Front Switch/LED: 1 x Power switch/LED 1 x Location switch/LED 1 x Reset switch 1 x Message LED	
OS Support		Please find the latest OS support from http://www.asus.com/	
Management Solution	**Software**	ASUS Control Center (Classic)	
	Out of Band Remote Management	On-Board ASM12-iKVM for KVM-over-IP	
Dimension		2U, 449 (W) x 88 (H) x 830 (D) mm 17.68 (W) x 3.5 (H) x 32.7 (D) inches	
Net Weight Kg (CPU, DRAM & HDD not included)		17.82	
Gross Weight Kg **(CPU, DRAM & HDD not included, Packing included)**		21.34	
Power Supply **(following different configuration by region)**		1+1 Redundant 80 PLUS 3200W/2700W Titanium PSU	
Environment		Operation temperature: 10℃ ~ 35℃ Non operation temperature: -40℃ ~ 70℃ Non operation humidity: 20% ~ 90% (Non condensing)	

SPECIFICATION

Model Name		**RS720A-E13-RS12U** (Non-GPU supported)
Processor Support		2 x AMD 9005 processors (Air-cooled w/ 2U EVAC HS up to TDP **400W**) *TDP support by configuration.
Core Logic		(INTEGRATED I/O – NO CHIPSET)
Memory	Total Slots Capacity Memory Type Memory Size	24x DDR5 DIMM slots, up to 6000MHz(1DPC) (12-channel per CPU, 12 DIMM per CPU) Maximum up to 3TB DDR5 6400/5600 RDIMM 128GB, 96GB, 64GB *Refer to Asus server AVL for the latest update
Expansion Slots	Total PCI/PCI-X/PCI-E/PIKE Slots Slot Type	**Total 10 Expansion slots** 6 x PCIe Gen5 x8 or 3 x PCIE Gen5 x16 (FHFL) 2 x PCIe Gen5 x16 (FHHL) 2 x OCP3.0 Gen5 x16
Disk Controller	SATA Controller	2 x DIMM.2 Gen3 x4 (22110, 2280, 2260) **Optional kits:** Broadcom HBA CARD 9500-16I Broadcom Mega RAID CARD 95XX series *Refer to Asus server AVL for the latest update
	SAS Controller	**Optional kits:** Broadcom HBA CARD 9500-16I Broadcom Mega RAID CARD 95XX series *Refer to Asus server AVL for the latest update
Storage Bays	**I = internal** **A or S will be hot-swappable**	12 x 2.5"/3.5" hot-swap drive bays -Configuration #1: 12NVMe -Configuration #2: 8NVME/SATA/SAS* + 4SATA/SAS* *HBA/ RAID card is required to support SAS hard drives
Networking	LAN	1 x Management Port
Graphic	VGA	Aspeed AST2600 64MB
Front I/O Ports		2 x USB 3.2 Gen1 ports
Rear I/O Ports		2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Mgmt. LAN port 1 x Debug port
Switch/LED		Rear Switch/LED: 1 x Power switch 1 x Location switch/LED Front Switch/LED: 1 x Power switch/LED 1 x Location switch/LED 1 x Reset switch 1 x Message LED
OS Support		Please find the latest OS support from http://www.asus.com/
Management Solution	Software	ASUS Control Center (Classic)
	Out of Band Remote Management	On-Board ASM12-iKVM for KVM-over-IP
Dimension		2U, 449 (W) x 88 (H) x 830 (D) mm 17.68 (W) x 3.5 (H) x 32.7 (D) inches
Net Weight Kg (CPU, DRAM & HDD not included)		17.82
Gross Weight Kg **(CPU, DRAM & HDD not included, Packing included)**		21.34
Power Supply **(following different configuration by region)**		1+1 Redundant 80 PLUS 3200W/2700W Titanium PSU
Environment		Operation temperature: 10℃ ~ 35℃ Non operation temperature: -40℃ ~ 70℃ Non operation humidity: 20% ~ 90% (Non condensing)

SPECIFICATION

Model Name		RS720A-E13-RS24U (Non-GPU supported)	RS720A-E13-RS24G (GPU supported)
Processor Support		2 x AMD 9005 processors (Air-cooled w/ 2U EVAC HS up to TDP **400W**) *TDP support by configuration.	2 x AMD 9005 processors (Air-cooled w/ 1U EVAC HS up to TDP **320W**) *TDP support by configuration.
Core Logic		(INTEGRATED I/O – NO CHIPSET)	
Memory	Total Slots Capacity Memory Type Memory Size	24x DDR5 DIMM slots, up to 6000MHz(1DPC) (12-channel per CPU, 12 DIMM per CPU) Maximum up to 3TB DDR5 6400/5600 RDIMM 128GB, 96GB, 64GB *Refer to Asus server AVL for the latest update	
Expansion Slots	Total PCI/PCI-X/PCI-E/PIKE Slots Slot Type	**Total 10 Expansion slots** 6 x PCIe Gen5 x8 or 3 x PCIE Gen5 x16 (FHFL) 2 x PCIe Gen5 x16 (FHHL) 2 x OCP3.0 Gen5 x16	
Disk Controller	SATA Controller	2 x DIMM.2 Gen3 x4 (22110, 2280, 2260) **Optional kits:** Broadcom HBA CARD 9500-16I Broadcom Mega RAID CARD 95XX series *Refer to Asus server AVL for the latest update	
	SAS Controller	**Optional kits:** Broadcom HBA CARD 9500-16I Broadcom Mega RAID CARD 95XX series *Refer to Asus server AVL for the latest update	
Storage Bays	I = internal A or S will be hot-swappable	24 x 2.5" hot-swap drive bays Support up to 8NVMe + 16NVMe/SATA/SAS* *HBA/ RAID card is required to support SAS hard drives	
Networking	LAN	1 x Management Port	
Graphic	VGA	Aspeed AST2600 64MB	
Front I/O Ports		2 x USB 3.2 Gen1 ports	
Rear I/O Ports		2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Mgmt. LAN port 1 x Debug port	
Switch/LED		Rear Switch/LED: 1 x Power switch 1 x Location switch/LED Front Switch/LED: 1 x Power switch/LED 1 x Location switch/LED 1 x Reset switch 1 x Message LED	
OS Support		Please find the latest OS support from http://www.asus.com/	
Management Solution	Software	ASUS Control Center (Classic)	
	Out of Band Remote Management	On-Board ASM12-iKVM for KVM-over-IP	
Dimension		2U, 449 (W) x 88 (H) x 830 (D) mm 17.68 (W) x 3.5 (H) x 32.7 (D) inches	
Net Weight Kg (CPU, DRAM & HDD not included)		17.82	
Gross Weight Kg (CPU, DRAM & HDD not included, Packing included)		21.34	
Power Supply (following different configuration by region)		1+1 Redundant 80 PLUS 3200W/2700W Titanium PSU	
Environment		Operation temperature: 10℃ ~ 35℃ Non operation temperature: -40℃ ~ 70℃ Non operation humidity: 20% ~ 90% (Non condensing)	