

# RS720A-E11-RS12

## New Generation, High Performance 2U Server



2U



2



32

ASUS RS720A-E11-RS12 was designed to accelerate application performance leveraging accelerator cards and storage scalability. With the CPU and memory configured in a front parallel design that enables efficient airflow for excellent thermal performance, RS720A-E11-RS12 is optimized for rack placement.

### FEATURE

- AMD EPYC 7003 Series Processors
- PCIe 4.0 Ready
- GPU and FPGA Support
- Cooling Solutions
- Enhanced Security

### AMD EPYC 7003 Series Processors

AMD was first with X86 multi-chip-module server CPUs and continues to innovate with the 3rd Gen EPYC processors.

### PCIe 4.0 Ready

PCI Express® (PCIe®) 4.0 delivers 16 GT/s bandwidth, which is double the speed of PCIe 3.0, offering lower power consumption, better lane scalability and backwards compatibility.

### GPU and FPGA Support

Up to four dual-slot GPUs such as NVIDIA A100 in one 2U system and optimized acceleration for workloads across cloud, data center and for hybrid cloud environment

### Cooling Solutions

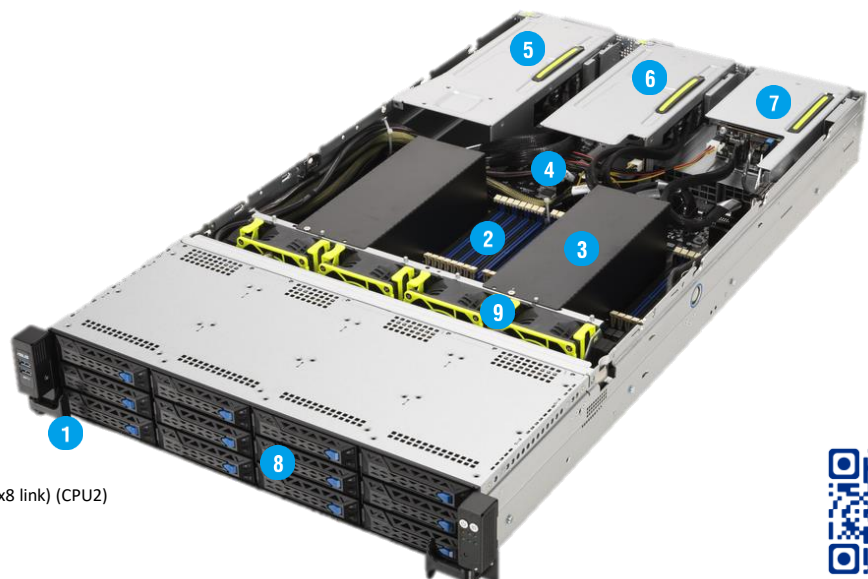
Air or liquid-cooled solutions. Asetek's Direct-to-Chip (D2C) liquid-cooling technology achieving lower power-usage effectiveness (PUE) and optimized TCO for data centers.

### 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.

### Target market

- Hot Data Cache Server
- Cloud Solution Provider
- Enterprise Storage
- Virtualized Storage



1. Asset Tag
2. 32 x DIMM, DDR4-3200/2933, RDIMM, LRDIMM, LRDIMM 3DS
3. AMD EPYC™ 7003/7002 Series
4. Dual M.2 (Up to 22110)
5. 1 x PCI-E Gen4 x16 link (CPU1), 1 x PCI-E x16 (Gen4 x16 link) or OCP3.0 (CPU1)
6. 1 x PCI-E x16 (Gen4 x16 link) (CPU2), 1 x PCI-E Gen4 x8 or x16 (if PCIe M.2 in use, it will drop to x8 link) (CPU2)
7. 1 x PCI-E x16 (Gen4 x16 link) (CPU2), 1+1 1600W/2400W 80 PLUS Platinum/Titanium CRPS
8. 12 x 3.5" Hot-swap HDD Bays
9. 4 x Hot-swap fan



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# SPECIFICATION

<b>Processor Support.</b>		2 x Socket SP3 (LGA 4094)  xGMI (External Global Memory Interface Link)
<b>Core Logic</b>		AMD EPYC™ 7003/7002 Series
<b>Memory</b>	<b>Total Slots</b>	32 (8-channel per CPU, 16 DIMM per CPU)
	<b>Capacity</b>	Maximum up to 4096GB
	<b>Memory Type</b>	DDR4 3200/2933 RDIMM/LR-DIMM/LR-DIMM 3DS *Refer to ASUS server AVL for the latest update
	<b>Memory Size</b>	64GB, 32GB, 16GB (RDIMM), 128GB, 64GB (LRDIMM), 256GB, 128GB, 64GB (LRDIMM 3DS) *Refer to ASUS server AVL for the latest update
<b>Expansion Slots</b>	<b>Total PCI/PCI-X/PCI-E/PIKE Slots</b>	9
	<b>Slot Type</b>	2 x PCIe Gen4 x8 or 1 x PCIe Gen4 x16, FHFL (CPU1 x1) 2 x PCIe Gen4 x8 or 1 x PCIe Gen4 x16, FHFL or OCP3.0 (CPU1 x1) (If choosing OCP3.0, another x8 slot will be limited to support PIKE card only) 4 x PCIe Gen4 x8 or 2 x PCIe Gen4 x16, FHFL (CPU2 x2) 1 x PCIe Gen4 x8 or x16, LP (if PCIe M.2 in use, it will operate at x8 link) (CPU2 x1) *Installing GPU cards will occupied expansion slots.
<b>Disk Controller</b>	<b>SATA Controller</b>	8 x SATA3 6Gb/s ports 2 x M.2 connector(SATA 6Gb/s & PCI-E Gen4 x4 link)
	<b>SAS Controller</b>	Optional kits: ASUS PIKE II 3008 8-port SAS HBA card ASUS PIKE II 3108 8-port SAS HW RAID card Broadcom MegaRAID 9560-16i 12G SAS Support
<b>Storage Bays</b>	<b>I = internal A or S will be hot-swappable</b>	12 x 3.5" Hot-swap Storage Device Bays up to (4x NVMe+4NVMe/SATA /SAS*+ 4x SATA/SAS*) *must with PIKE/RAID card 2 x 2.5" hot-swap drive bays (2x NVMe)(optional rear bays) 2 x M.2 (Up to 22110) (Support SATA/PCIe M.2) (CPU2)
<b>Networking</b>	<b>LAN</b>	1 x Quad Port Intel I350-AM4 1G LAN Controller or 1 x Dual Port Intel X710-AT2 Gigabit 10G LAN Controller or none 1 x Management Port
<b>Graphic</b>	<b>VGA</b>	Aspeed AST2600 64MB
<b>Front I/O Ports</b>		2 x USB 3.2 Gen 1 ports
<b>Rear I/O Ports</b>		2 x USB 3.2 Gen 1 ports, 1 x VGA port, optional 2 x 10G or 4 x 1G RJ-45 GbE LAN port, 1 x RJ-45 Mgmt LAN port, 1 x OCP 3.0 port
<b>Switch/LED</b>		Rear Switch/LED: 1 x Q-Code/Port 80 LED, 1 x Power switch, 1 x Location switch/LED, 1 x Message LED Front Switch/LED: 1 x Power switch/LED, 1 x Location switch/LED, 1 x Reset switch, 1 x HDD Access LED, 1 x Message LED, LAN 1-4 LED * LAN3-4 for OCP3.0 card use
<b>OS Support</b>		Windows® Server 2019 RedHat® Enterprise Linux, SuSE® Linux Enterprise Server CentOS, Ubuntu, Vmware Please find the latest OS support from <a href="http://www.asus.com/">http://www.asus.com/</a>
<b>Management Solution</b>	<b>Software</b>	ASUS Control Center (Classic)
	<b>Out of Band Remote Management</b>	On-Board ASMB10-iKVM for KVM-over-IP
<b>Dimension</b>		840mm x 449mm x 88.1mm (33.07" x 17.68" x 3.47")
<b>Net Weight Kg (CPU, DRAM &amp; HDD not included)</b>		18.195 kg
<b>Gross Weight Kg (CPU, DRAM &amp; HDD not included, Packing include)</b>		23.235 kg
<b>Power Supply (following different configuration by region)</b>		1+1 Redundant 1600W 80 PLUS Platinum Power Supply Rating: 100-127/200-240 Vac, 9.4 A/4.72A (x2), 50/60Hz, Class I (240Vdc, 4.6A only for China) 1+1 Redundant 2400W 80 PLUS Titanium Power Supply
<b>Environment</b>		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 60°C Non operation humidity: 20% ~ 90% ( Non condensing)