

# RS700-E9-RS12

High performance 1U cache server with 24 DIMMs and 12 bays



## FEATURE

- Powered by Intel® Xeon® Scalable Platform
- 12 x 2.5" hot-swap storage bays in a 1U server
- Advanced I/O support for 3+1 expandability
- Expandable storage for faster transfer speeds dual M.2 slots with 22110-size SSD support
- Smart thermal design for energy efficiency — reduces fan power consumption by up to 20%
- User-friendly design for easier server maintenance — tool-less design for installation and removal
- Fully integrated remote server management — ASUS Control Center IT management software and ASMB9-iKVM module support

### Intel® Xeon® Scalable Platform design

ASUS RS700-E9-RS12 is built on the Intel® Xeon® Scalable Platform to deliver incredible 1U server performance, packing incredible power into minimal space. 24 DIMM slots provide best-in-class memory capacity and bandwidth, and an integrated I/O controller on the processor eliminates data transfer bottlenecks caused by discrete I/O chipsets for reduced latency and dramatically faster system performance.

### User-friendly design for easier server maintenance

RS700-E9-RS12 features numerous user-friendly design features that simplify server maintenance. The server's Q-code is visible from the outside of the case to make diagnosing issues easier and more convenient. A tool-less rack rail kit is included for easy server installation and removal, and a tool-less.

### Advanced I/O support for 3+1 Expandability

RS700-E9-RS12 offers one full-high PCI Express 3.0 x16 slot (x16 link), one low-profile PCI Express 3.0 x16 slot (x8 link), one low-profile PCI Express 3.0 x8 slot (x8 link), and one OCP 2.0 Mezzanine slot (x16 link) to support 10G/25G/100G LAN card. The flexible expansions offer diverse applications in storage and networking to meeting the demands of future expansion and high scalability in a 1U server.

### Expandable storage for faster transfer speeds

RS700-E9-RS12 features a port-to-port OCuLink design with 3X faster transfer speeds compared to PCIe switch IC solutions. Two M.2 slots accommodate 22110-size SSDs with support for additional OS storage and PCIe 3.0 x4 bandwidth — 5.3X faster than 6 Gb/s SATA III — for faster boot speeds. RS700-E9 is ideal for data centers with high storage and processing demands.

### Fully integrated remote server management

The latest ASMB9-iKVM module enables remote BIOS updates, standalone KVM/Java utilities, video recording and BSOD capture. With out-of-band management, ASMB9-iKVM provides around-the-clock remote monitoring and diagnostics — even if the server operating system is down or offline — through a user-friendly, web-based graphical interface that works with all major browsers.

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# SPECIFICATION

<b>Processor Support</b>		2 x Socket P (LGA 3647) 1 <sup>st</sup> and 2 <sup>nd</sup> Generation Intel® Xeon® Scalable Processors Family (205W) UPI 10.4 GT/s
<b>Core Logic</b>		Intel® C621 PCH
<b>Memory</b>	<b>Total Slots</b>	24 (6-channel per CPU, 12 DIMM per CPU)
	<b>Capacity</b>	Maximum up to 7680GB
	<b>Memory Type</b>	DDR4 2933/2666/2400 RDIMM/LRDIMM/LRDIMM 3DS/ DCPMM* *Intel® Optane™ DC persistent memory (DCPMM)
	<b>Memory Size</b>	4GB,8GB, 12GB, 32GB (RDIMM) / 64GB,128GB(RDIMM 3DS) / 32GB, 64GB,128GB(LRDIMM) / 64GB,128GB ,256GB(LRDIMM 3DS) / 128GB, 256GB, 512GB (DCPMM) *Refer to Asus server AVL for latest update
<b>Expansion Slots</b>	<b>Total PCI/PCI-X/PCIe/PIKE Slots</b>	3+1
	<b>Slot Type</b>	1 x PCI-E x16 (Gen3 x16 link), FH, HL (Default for NVME4-OCuLink Card) 1 x PCI-E x16 (Gen3 x8 link), LP, HL 1 x PCI-E x8 (Gen3 x8 link), LP, HL 1 x OCP 2.0 Mezzanine (Gen3 x16 link)
<b>Disk Controller</b>	<b>SATA Controller</b>	Intel® PCH 10 x SATA 6Gb/s ports + 1 x M.2 connector(SATA 6Gb/s & PCI-E Gen3 x4 link) or 9 x SATA 6Gb/s ports + 2 x M.2 connector(SATA 6Gb/s & PCI-E Gen3 x4 link) Intel® RSTe ( for Windows and Linux; Support software RAID 0, 1, 10 & 5)
	<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 12G SAS Support
<b>Storage Bays</b>		12 x 2.5" Hot-swap Storage Bays ( 4 x Default NVMe,4 x Hybrid NVMe/SAS/SATA, 4 x Hybrid SAS/SATA) 2 x M.2 (22110, 2280, 2260, 2242) (Support SATA/PCIe M.2,SATA RAID) *SAS support via PIKE
<b>Networking</b>	<b>LAN</b>	1 x Dual Port Intel I350-AM2 Gigabit LAN Controller, 1 x Management Port
<b>Graphic</b>	<b>VGA</b>	Aspeed AST2500 64MB
<b>Front I/O Ports</b>		2 x USB 3.0 ports, 1 x VGA port
<b>Rear I/O Ports</b>		2 x USB 3.0 ports 1 x VGA port 2 x RJ-45 GbE LAN ports 1 x RJ-45 Management LAN port
<b>Switch/LED</b>		Rear Switch/LED: 1 x Power switch, 1 x Q-Code/Port 80 LED, 1 x Message LED, 1 x Drive LED, 1 x Location LED Front Switch/LED: 1 x Power switch/LED, 1 x Location LED, 1 x Message LED, 1 x Drive LED, LAN 1-2 LED
<b>OS Support</b>		Please find the latest OS support from <a href="http://www.asus.com/">http://www.asus.com/</a>
<b>Security Option</b>		TPM 2.0
<b>Management Solution</b>	<b>Software</b>	ASUS Control Center
	<b>Out of Band Remote Management</b>	On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>		686mm x 444mm x 44mm(1U), 27" x 17.48" x 1.73"
<b>Net Weight Kg (CPU, DRAM &amp; HDD not included)</b>		16.8 kg
<b>Gross Weight Kg (CPU, DRAM &amp; HDD not included, Packing include)</b>		18.35 Kg
<b>Power Supply (following different configuration by region)</b>		1+1 Redundant 800W 80 PLUS Platinum Power Supply Rating: 100-127/200-240Vac, 9.4A/4.72A, 47-63Hz Class I or 240Vdc, 4.6A (240Vdc Only for China)
<b>Environment</b>		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 60°C Non operation humidity: 20% ~ 90% ( Non condensing)