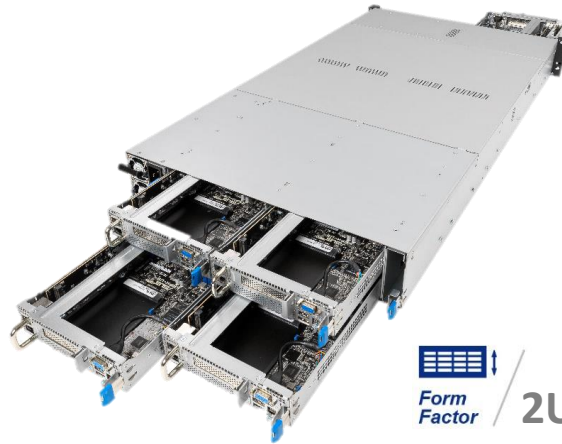


RS620SA-E10-RS12

High-density and great scalability with 6 nodes in a 2U Rack Server



 **Form Factor** / **2U6N**
 **CPU Number** / **1**
 **Memory Number** / **8**

RS620SA-E10-RS12 Series is the ideal multi-node server for high-performance computing, web hosting, content delivery network application. Featuring modular 6 server nodes in 2U chassis, RS620SA-E10 delivers incredible performance and provide more flexible configurators to meet demanding compute use requirements.

FEATURE

- 1 x AMD EPYC™ 7002 Series Processors with DDR4 Memory up to 3200MHz
- 2 x 2.5" Hot-swap Drive Bays support 2 x SATA/NVME/SAS (each node)
- Embedded Management
 - BMC (ASMB90iKVM)
 - ASUS Control Center (ACC)
- Visible Q-code/Port 80 LED
- Support 1 x PCIe + 1 x OCPC 3.0 Expansion Slots (each node)
- Thermal Radar and Auto Fan Control Features

Optimized performance for the data center with a single-socket AMD EPYC 7002 processor and eight DIMMs per node

RS620SA-E10-RS12 supports single AMD EPYC 7002 processor, featuring 280W CPU with 64 cores and 128 threads for leading performance. With total 48 x DIMM slots (6 nodes), supports total 4TB of fast, DDR4-3200MHz of RDIMMs or LR-DIMMs/3DS.

Ultrafast Connectivity for HPC Applications

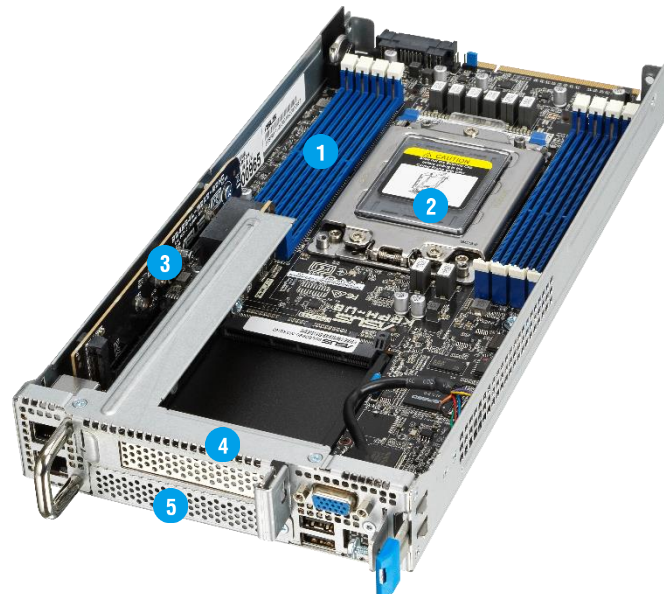
RS620SA-E10-RS12 features one embedded 1 Gigabit Ethernet ports and supports up to 100 Gigabit interconnect speeds with the addition of PCIe adapter cards for ultrafast connectivity. Additionally, it supports one OCP 3.0 Mezzanine card (Gen4 x16 link) for HPC applications that require high-bandwidth, low-latency network support to connect multiple nodes and clusters.

Thermal Radar and Auto Fan Control

The server is enabled a smart Thermal Radar and Auto Fan Control mechanism with more ambient temperature sensors for the CPU, memory, and the front inlet air flow. The feature could provide improved thermal monitoring and enable dynamic fan speed adjustment for better thermal efficiency

Target market

- HPC Application
- Web hosting
- Content delivery network



1. 8 x DIMM, DDR4-3200/2933/2666, RDIMM, LRDIMM, LRDIMM 3DS
2. AMD EPYC 7002 processor Family (up to 280W)
3. Dual M.2 (NGFF), up to 22110
4. 1 x PCI-E x16 (Gen4 x16 link)
5. 1 x OCP 3.0 Mezzanine (Gen4 x16 link)
6. 12 x 2.5" Hot-Swap SSD Bays (SATA/SAS/NVMe Support)
7. 1+1 2200W/3000W 80 PLUS Platinum CRPS

RS620SA-E10-RS12

SPECIFICATION

Processor Support		1 x SP3 LGA4094 AMD EPYC™ 7002 Series Processor (up to 280W)
Core Logic		NA
Memory	Total Slots	8 (8 channels)
	Capacity	Maximum up to 4096GB per node
	Memory Type	DDR4 3200/2933/2666 RDIMM/LR-DIMM/LR-DIMM 3DS *Refer to ASUS server AVL for the latest update
	Memory Size	32GB, 16GB, 8GB, 4GB (RDIMM), 64GB, 32GB (LRDIMM), 128GB, 64GB (LRDIMM 3DS) *Refer to ASUS server AVL for the latest update
Expansion Slots	Total PCI/PCI-X/PCI-E/PIKE Slots	1+1 per node
	Slot Type	1 x PCI-E x16 (Gen4 x16 link), LP, HL 1 x OCP 3.0 Mezzanine (Gen4 x16 link)
Disk Controller	SATA Controller	Per Node: Integrated in CPU - 2 x M.2 connector (up to 22110, SATA 6Gbps or PCI-E Gen4 x4 link)
	SAS Controller	NA
Storage Bays	I = internal A or S will be hot-swappable	up to 12 x 2.5" Hot-swap Storage Bays - (12 x 2.5" SATA/SAS/NVMe Devices) *SATA and SAS are from CB8LX12G-R2H-B board w/ Broadcom (LSI) SAS3008
Networking	LAN	Per Node: 1 x 1GbE LAN (i210 Chipset) 1 x Mgmt LAN (AST2500)
Graphic	VGA	Aspeed AST2500 64MB
I/O Ports		Per Node: 2 x USB 3.2 Gen 1 ports 1 x VGA port 1 x RJ-45 1GbE LAN port 1 x RJ-45 Mgmt LAN port
Switch/LED		Switch/LED (per Node): 1 x Power switch/LED 1 x Q-Code/Port 80 LED 1 x Message LED 1 x Location switch/LED Switch/LED (front panel): 4 x Power switch/LED (Node 1-4 only) 4 x Message LED (Node 1-4 only) 4 x LAN LED (Node 1-4 only) 6 x Location switch/LED
OS Support		Windows® Server 2016 64 bit, Windows® Server 2019 64 bit RHEL 8.X Server Edition, RHEL 7.X Server Edition SLES 15, SLES 12 SP3, SLES 11 SP4 Ubuntu 18.04 LTS Server 64 bit CentOS 7.5 (1804)/Scientific Linux 7.5 CentOS 7.4 (1708)/Scientific Linux 7.4 VMware ESXi 6.7 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 ASMB9-iKVM for KVM-over-IP
Dimension		846.2 mm x 444 mm x 88 mm (2U)
Net Weight Kg (CPU, DRAM & HDD not included)		36.99 kg
Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		46.68 kg
Power Supply (following different configuration by region)		2 x 2200W/3000W 80PLUS Platinum Power Supply Rating: 200-240Vac, 12.6A (x2), 47-63Hz Rating: 220-240Vac, 15.5A (x2), 50/60Hz
Environment		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing)