

# RS520A-E11-RS12U

## AMD Single Socket, High Performance 2U Server



2U



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16

### 3rd Gen AMD EPYC™ processors with AMD 3D V-Cache™ technology

ASUS RS520A-E11-RS12U 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, RS520A-E11-RS12U is optimized for rack placement. Featuring the single processor in a 2U chassis, RS520A-E11 series delivers the right-sized rack server dimensions for price sensitive applications and meets the demanding computing requirements.

### FEATURE

- 1 x AMD EPYC 7003 Series Processor with DDR4 Memory up to 3200Mhz
- PCIe Gen4 Ready
- Max 2x DW GPU cards supported
- Rack-optimized Design
- 12 x 3.5" Hot-swap HDD bays

### Industry-leading memory capability

With 16 x DIMM slots, RS520A-E11 Series supports total 4,096GB memory size. The CPU's memory controller supports 16 x DDR4 memory slots with 8 channels, up to 3200Mhz of RDIMMs or LRDIMMs/3DS. We deliver the industry-leading technology of server memory for our customers' business.

### AMD EPYC™ 7003 Series Processor

The RS520A-E11 Series is built on the latest AMD EPYC™ 7003 Series Processor, and designed for the demand of scale-out computing, and wide range of existing and emerging workloads.

### The best storage interface combination for software-defined storage management

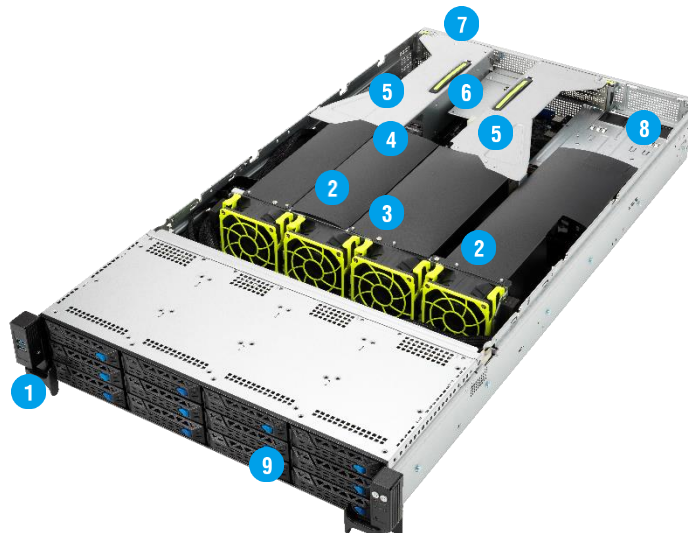
12 x 3.5" hot-swap storage bays (supports maximum 12 x 3.5" NVMe devices)

### Comprehensive IT infrastructure management solution

ASMB10-iKVM and ASUS Control Center (ACC Classic)

### Target market

- Data center Storage Server
- Enterprise Application



1. Asset Tag
2. 16 x DIMM, DDR4-3200/2933, RDIMM, LRDIMM, LRDIMM 3DS
3. AMD EPYC™ 7002/7003 Processor Family (Up to 280W)
4. Dual M.2 (NGFF), 22110/2280/2260/2242
5. 2 x PCIe x16 slot(Gen4 x16 link, FHFL) or dual-slot GPU cards
6. 2 x PCIe x16 slot(Gen4 x8 link, LP)\*
7. 1 x OCP 3.0 Mezzanine (Gen4 x16 link)
8. 1+1 800W/1200W/1600W 80 PLUS Platinum PSUs or 850W 80 PLUS Titanium PSUs
9. 12 x 3.5" Hot-swap HDD Bays

\*NVMe Qty restricted to 8pcs

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## SPECIFICATION

<b>Processor Support.</b>		1 x Socket SP3 (LGA 4094) Support 3rd Gen AMD EPYC™ processors with AMD 3D V-Cache™ technology  AMD EPYC™ 7002/7003 Processor Family (Up to 280W) UPI 10.4 GT/s
<b>Core Logic</b>		System on Chip (SOC)
<b>Memory</b>	<b>Total Slots</b>	16 (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
	<b>Memory Size</b>	128GB, 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>	Up to 6
	<b>Slot Type</b>	2 x PCIe x16 slot(Gen4 x16 link, FHFL) or dual-slot GPU cards or 4 x PCIe x16 slot(Gen4 x8 link, FHFL) 2 x PCIe x16 slot(Gen4 x8 link, LP)* 1 x OCP 3.0 Mezzanine (Gen4 x16 link)  *NVMe Qty restricted to 8pcs
<b>Disk Controller</b>	<b>SATA Controller</b>	CPU Integrated
	<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
<b>Storage Bays</b>	<b>I = internal A or S will be hot-swappable</b>	12 x 3.5" hot-swap drive bays 12x NVMe/SATA/SAS 8NVMe +12SAS/SATA* *SAS support only from optional SAS HBA/RAID card *optional rear bay & slot5 support limited to 8 NVMe support 2 x M.2 (22110, 2280, 2260, 2242) (Support SATA 6Gb/s*2 or PCIe Gen4 x4 link*1 or PCIe Gen4 x2 link*2)
<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 AST2600 64MB
<b>Front I/O Ports</b>		2 x USB 3.2 Gen1 ports
<b>Rear I/O Ports</b>		2 x USB 3.2 Gen1 ports, 1 x VGA port, 2 x RJ-45 GbE LAN ports, 1 x RJ-45 Mgmt LAN 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 1-2 LED
<b>OS Support</b>		Please find the latest OS support from <a href="#">OS Compatibility Guide   ASUS</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 88mm (2U) 33.07" x 17.68" x 3.47"
<b>Net Weight Kg (CPU, DRAM &amp; HDD not included)</b>		18.83 kg
<b>Gross Weight Kg (CPU, DRAM &amp; HDD not included, Packing include)</b>		24.42 kg
<b>Power Supply (following different configuration by region)</b>		1+1 Redundant 800W/1200W/1600W 80 PLUS Platinum Power Supply Rating: 100-127 / 200-240Vac, 10A / 5A (for each inlet), 50-60Hz, Class I Rating: 100-127 / 200-240Vac, 10A / 8A (for each inlet), 50-60Hz or 240Vdc, 6A 1+1 Redundant 850W 80 PLUS Titanium Power Supply Rating: 100-127 / 200-240Vac, 11A / 5A (for each inlet), 47-63Hz or 240Vdc, 4A 240Vdc Only for China
<b>Environment</b>		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% ( Non condensing)