RS300-E12 INTEL Xeon

Flagship Model with Versatile Expandability

Form Factor 1U | CPU Number 1 | Memory Number 4

ASUS RS300-E12 series is an Intel® Xeon® E-2400 & Xeon® 6300 series processor 1U rack server based on Intel® C262 chipset. RS300-E12 Series has high expandability with 2 expansion slots and 1 proprietary slot in a configuration. This flexible expansion offers diverse applications in graphic, storage and networking to meeting the demands of future expansion.

FEATURE

- Intel® Xeon® processor 1U rack server
- Single LGA1700 socket
- 4 x 3.5”/2.5” Hot-swap Drive Bays support 4 x SATA/SAS/NVME
- Flexible storage combination for diverse usage
- Up to two PCIe® 5.0 slots and one PCIe® 4.0 proprietary slot to drive higher bandwidth
- Onboard ASUS ASMB11-iKVM for out-of-band management with ASPEED AST2600 controller

Target market

- Data center, front-end server
- Firewall, gateway server
- SMB print/file/mail/exchange server
- Surveillance

RS300-E12-PS4 Rear View

RS300-E12-RS4 Rear View

Versatile storage capability

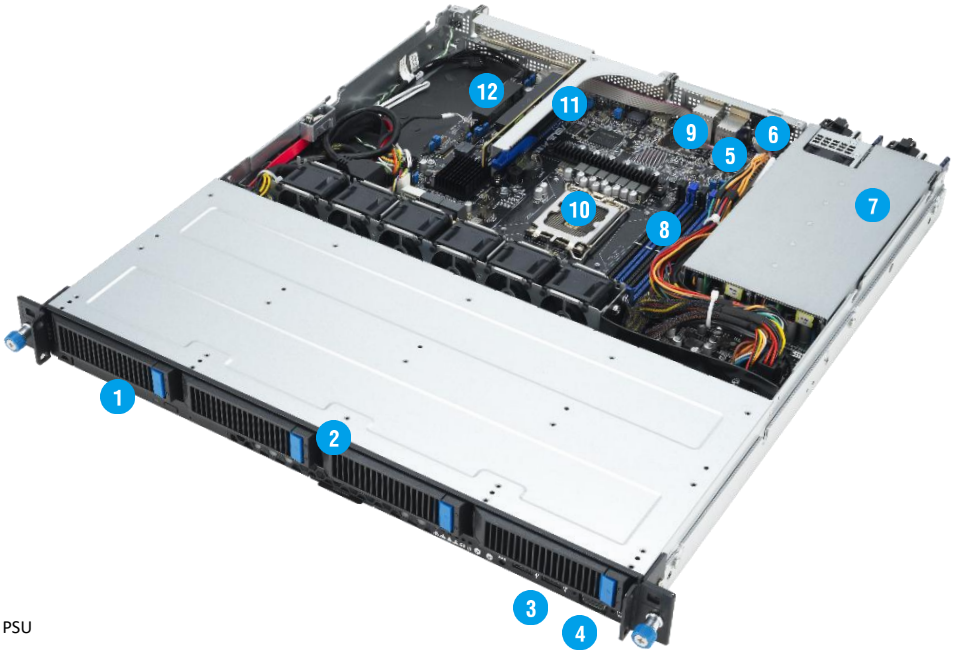
RS300-E12 Series is the perfect choice for an operating system or application drive, making the server work as fast as possible. Four 3.5” or 2.5” hot-swap drives on front panel and one M.2 to enable extensive storage.

PCIe 5.0 Ready

RS300-E12 servers are PCIe 5.0 ready to support a diverse array of graphics, storage and networking – enabling flexible scalability for demanding or increasing workloads..

Server-grade connectivity

Featuring dual onboard LAN ported by Intel I210-AT Ethernet Controller, RS300-E12 Series provides server-grade connectivity and supports high-density, high-bandwidth, low-latency access-layer networks to ensure faster transfers of large-size files used in data-intensive applications.



1. 1 x Slim type ODD (optional)
2. 4 x 3.5”/2.5” Hot-swap HDD Bays
3. 2 x USB 3.2 Gen1 port
4. 1 x VGA port
5. 2 x Intel® I210-AT
6. 1 x VGA output
7. Single 350W 80 PLUS Gold/ 1+1 450W 80 PLUS PLATINUM PSU
8. 4 x DDR5 up to 4800 ECC UDIMM
9. 2 x USB 3.2 Gen2 port + 1 x RJ-45 ports
10. Intel® LGA1700 CPU socket
11. 1 x PCIe x 16 (Gen5 x 16 link) and 1 x PCIe x 8 (Gen5 x 8 link)
12. 1 x Proprietary slot (Gen4 x 4 link)

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SPECIFICATION

Processor Support		1 x Socket LGA 1700 Intel Xeon E-2400 series processor (up to 95W) Intel Xeon 6300 series processor (up to 95W) Intel® Pentium™ processors
Core Logic		Intel® C262 PCH
Memory	**Total Slots**	4 (2-channel)
	Capacity	Maximum up to 128GB
	Memory Type	DDR5 4400/4000/3600 ECC UDIMM *Refer to ASUS server AVL for the latest update
	Memory Size	32GB, 16GB, 8GB (UDIMM) *Refer to ASUS server AVL for the latest update
Expansion Slots	**Total PCI/PCI-X/PCI-E/PIKE Slots**	3
	Slot Type	1 x PCI-E x 16 (Gen5 x16 Link, switch to x8 link when slot B occupied), FH/HL 1 x PCI-E x 8 (Gen5 x8 Link), HH/HL 1 x PCI-E x 8 (Gen4 x4 Link), Proprietary R/A slot (optional for Intel X710 10G LAN card or PEI-1G/I210-2T/M,2 card))
Disk Controller	**SATA Controller**	Intel® C262 Chipset 6 x SATA3 6Gb/s ports Intel®VROC (For Linux/Windows) (Support Software RAID 0/1/5/10)
	SAS Controller	ASUS PIKE II 3008-8i 8-port SAS 12G RAID card (Optional) ASUS PIKE II 3108-8i 8-port SAS 12G HW RAID card (Optional)
Storage Bays	**I = internal** **A or S will be hot-swappable**	4 x 3.5”/2.5” Hot-Swap HDD Bays, up to (4*SATA/SAS/NVMe) *SAS support only from optional SAS HBA/RAID card *NVMe support only from optional NVMe upgrade kit
Networking	**LAN**	2 x Intel® I210-AT + 1 x Mgmt LAN
Graphic	**VGA**	Aspeed AST2600 with 64MB VRAM
I/O Ports		**Rear I/O Ports:** 3 x USB 3.2 Gen 2 ports 1 x VGA port 1 x COM port 1 x RJ-45 ports **Front I/O Ports:** 1 x VGA port 2 x USB 3.2 Gen1 ports
Switch/LED		**Rear Switch/LED:** 1 x Q-Code/Port 80 LED 1 x Power switch **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
OS Support		Please find the latest OS support from https://www.asus.com/event/Server/OS_support_list/OS.html
Management Solution	**Software**	ASUS Control Center (Classic)
	Out of Band Remote Management	Onboard ASMB11-iKVM for KVM-over-Internet
Dimension		497mm x 439.5mm x 44mm(1U)
Net Weight Kg (CPU, DRAM & HDD not included)		10.3 kg (RS300-E12-RS4) 8.47 kg (RS300-E12-PS4)
Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		15.3 kg (RS300-E12-RS4) 13.47 kg (RS300-E12-PS4)
Power Supply (following different configuration by region)		Single 350W 80 PLUS Gold PSU (RS300-E12-PS4) 1+1 450W 80 PLUS PLATINUM RPSU (RS300-E12-RS4)
Environment		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing)

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