

## SERIES

# Flagship Model with Versatile Expandability



1U



1



4

ASUS RS300-E10 series is an Intel® Xeon® E processor 1U rack server based on Intel® C242 chipset. RS300-E10 Series has high expandability with 2 expansion slots in a configuration. This flexible expansion offers diverse applications in graphic, storage and networking to meeting the demands of future expansion.

### Target market

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

### Fruitful Storage I/O Expandability

- Native 6 SATA 6G onboard
- M.2 (NGFF, Gen3 x2) for independent OS drive
- 2 x PCI-E x8 Link enable extreme flexibility

### Comprehensive IT infrastructure management solution

Optional ASMB9-iKVM and ASUS Control Center (ACC\*)

### High networking connection

RS300-E10 Series with quad server-class Intel® LAN controllers, which doubles queues compared to previous-generation. This is better for virtualization applications. In addition, the quad LAN teaming quadruples the network bandwidth and the failover function ensures uninterrupted network connections.

### Dual M.2 unleash independent and redundant I/O for OS drive

Capacity up to 2TB M.2 is supported for RS300-E10 series, either SATA and PCIe source can be auto by switch. The design with dual M.2 is capable of RAID 0, 1 and bring up better back-up solution for internal OS drive.

### Versatile storage capability

RS300-E10 Series is the perfect choice for an operating system or application drive, making the server work as fast as possible. ASUS further furnishes several choices for OS drive placement, such as M.2 (dual, up to 512GB x 2), SSD cage and SATA DOM. For disk storage, it can offer four 3.5" hot-swap disk bay and two internal 2.5" SSD bay (optional).

## FEATURE

- Intel Xeon® E processor 1U rack server
- Single LGA1151 socket
- PCI-E x16 Gen3 supported for graphic card (optional)
- 2 x M.2 support
- Flexible storage combination for diverse usage

RS300-E10 Series  
615mm x 444mm x 44mm (1U)  
24.21" x 17.48" x 1.73"



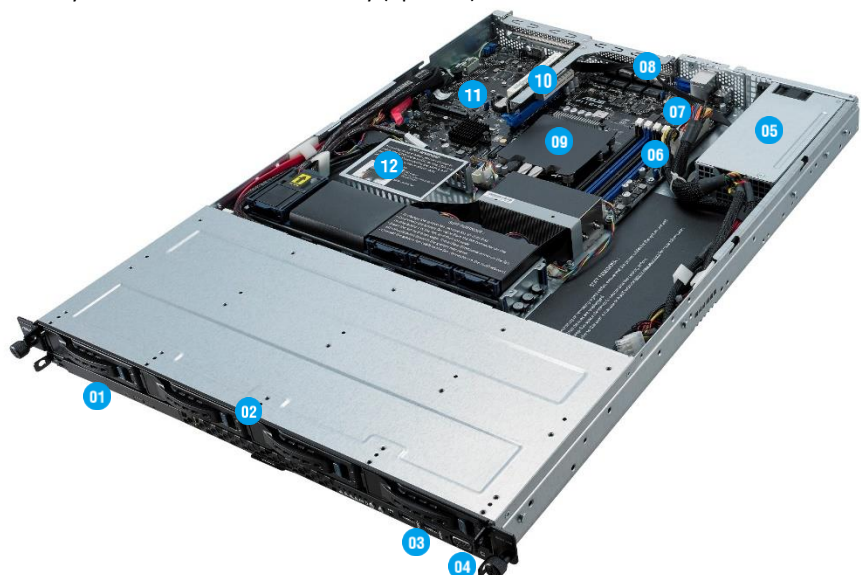
RS300-E10 Series Front View with optional ODD



RS300-E10-PS4 Rear View



RS300-E10-RS4 Rear View



1. 1 x Slim type ODD (optional)
2. 4 x 3.5" Hot-swap HDD Bays
3. 2 x USB 3.0 port
4. 1 x VGA port
5. Single 350W/400W 80 PLUS Gold / 1+1 450W 80 PLUS Gold PSU
6. 4 x DDR4 2666 ECC/non-ECC UDIMM, up to 64GB
7. Optional ASMB9-iKVM
8. Quad Intel® server LAN
9. Intel LGA1151 CPU socket
10. 1 x PCI-E x 16 (Gen3 x8 link) & 1 x PCI-E x 8 (Gen3 x8 link)
11. 2 x M.2 (NGFF) 2242, 2260, 2280, 22110
12. 2 x 2.5" SSD bays (optional)



## SPECIFICATION

|                                                                   |                                         |                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Processor Support</b>                                          |                                         | 1 x Socket P0 (LGA 1151)<br>Intel® Xeon® E processors (up to 95W)<br>Intel® Core™ i3 processors<br>Intel® Pentium™ processors<br>Intel® Celeron™ processors                                                                             |
| <b>Core Logic</b>                                                 |                                         | Intel® C242 PCH                                                                                                                                                                                                                         |
| <b>Memory</b>                                                     | <b>Total Slots</b>                      | 4 (2-channel per CPU)                                                                                                                                                                                                                   |
|                                                                   | <b>Capacity</b>                         | Maximum up to 128GB                                                                                                                                                                                                                     |
|                                                                   | <b>Memory Type</b>                      | DDR4 2666/2400 ECC and non-ECC UDIMM<br>*Refer to ASUS server AVL for the latest update                                                                                                                                                 |
|                                                                   | <b>Memory Size</b>                      | 32GB, 16GB, 8GB, 4GB (UDIMM)<br>*Refer to ASUS server AVL for the latest update                                                                                                                                                         |
| <b>Expansion Slots</b>                                            | <b>Total PCI/PCI-X/PCI-E/PIKE Slots</b> | 2                                                                                                                                                                                                                                       |
|                                                                   | <b>Slot Type</b>                        | 1 x PCI-E x16 (Gen3 x8 link)<br>1 x PCI-E x8 (Gen3 x8 link)                                                                                                                                                                             |
|                                                                   | <b>Audio</b>                            | -                                                                                                                                                                                                                                       |
| <b>Disk Controller</b>                                            | <b>SATA Controller</b>                  | Intel® C242<br>- 6 x SATA 6Gb/s ports (4 by miniSAS HD)<br>- 2 x M.2 connector(NGFF 2242, PCI-E Gen3 x2 link or SATA signal, gray SATA port will disable when M.2 is SATA signal)<br>Intel® RSTe (Support software RAID 0, 1, 10 & 5)   |
|                                                                   | <b>SAS Controller</b>                   | Optional kits:<br>ASUS PIKE II 3008 8-port SAS HBA card<br>ASUS PIKE II 3108 8-port SAS HW RAID card<br>12G SAS Support                                                                                                                 |
| <b>Storage Bays</b>                                               | <b>I = internal</b>                     | 4 x 3.5" Hot-Swap HDD Bays                                                                                                                                                                                                              |
|                                                                   | <b>A or S will be hot-swappable</b>     | 2 x 2.5" Internal SSD Bays (Optional)<br>2 x M.2 (NGFF 22110/2280/2260/2242)                                                                                                                                                            |
| <b>Networking</b>                                                 | <b>LAN</b>                              | 1 x Quad Port Intel I210 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, 2 x USB 3.1 ports, 1 x COM port(RS300-E10-PS4 only), 4 x RJ-45 GbE LAN ports, 1 x RJ-45 Mgmt LAN port                                                                                                                |
| <b>Switch/LED</b>                                                 |                                         | <b>Rear Switch/LED:</b><br>1 x Q-Code/Port 80 LED<br>1 x Power switch<br><b>Front Switch/LED:</b><br>1 x Power switch/LED<br>1 x Location switch/LED<br>1 x Reset switch<br>1 x HDD Access LED<br>1 x Message LED<br>LAN 1-4 LED        |
| <b>OS Support</b>                                                 |                                         | Please find the latest OS support from<br><a href="https://www.asus.com/event/Server/OS_support_list/OS.html">https://www.asus.com/event/Server/OS_support_list/OS.html</a>                                                             |
| <b>Security</b>                                                   |                                         | Optional TPM 2.0 module                                                                                                                                                                                                                 |
| <b>Management Solution</b>                                        | <b>Software</b>                         | ASUS Control Center (Classic)                                                                                                                                                                                                           |
|                                                                   | <b>Out of Band Remote Management</b>    | Optional ASMB9-iKVM for KVM-over-IP                                                                                                                                                                                                     |
| <b>Dimension</b>                                                  |                                         | 615mm x 444mm x 44mm (1U)<br>24.21" x 17.48" x 1.73"                                                                                                                                                                                    |
| <b>Power Supply (following different configuration by region)</b> |                                         | 1+1 Redundant 450W 80 PLUS Gold Power Supply<br>Rating: 100-127Vac/200-240Vac, 8A/4A, 47-63Hz, Class 1<br>Single 350W 80 PLUS Gold Power Supply<br>Single 400W 80 PLUS Gold Power Supply<br>Rating: 100-240Vac, 6.3-3A 60-50Hz, Class 1 |
| <b>Environment</b>                                                |                                         | Operation temperature: 10°C ~ 35°C                                                                                                                                                                                                      |

