

**ASUS**<sup>®</sup>  
IN SEARCH OF INCREDIBLE



**ASUS Server and Workstation**

# PRODUCT PORTFOLIO



- Over 23 years of experience building high-quality servers and workstations
- Received 67 benchmark world records for fastest 2P server performance\*
- Ranked No.1 on the Green500 list of energy-efficient supercomputers in 2014
- One of only two server manufactures to win a 2017 Computex Best Choice Award

\*All results can be verified on [spec.org](http://spec.org), August 1st 2018.



Interbrand

## In Search of Incredible

ASUS is one of Fortune magazine's World's Most Admired Companies, and is dedicated to creating products for today and tomorrow's smart life. Our comprehensive portfolio includes Zenbo, ZenFone, ZenBook and a range of IT devices and components, along with AR, VR and IoT. ASUS employs more than 16,000 people worldwide and over 5,000 world-class R&D talents. Driven by innovation and committed to quality, the company won 4,511 awards and earned approximately US\$13 billion of revenue in 2017.



## Green ASUS

### Keeping The Environment In Mind

We at ASUS are fully committed to creating a sustainable future. We believe in adopting an eco-friendly approach towards every aspect of our business. This is where the GreenASUS philosophy comes in — from our internal practices to our production processes — we remain focused on safeguarding our planet. ASUS is focused on safeguarding our planet with responsible products, and ASUS products succeed in combining a lower total cost of ownership (TCO) with the highest environmental standards. It is fully EPEAT, Energy Star, and RoHS certified.

### Green Design

Good design extends beyond mere aesthetics, products should use modular components for simple repairs and prolonged life spans, and be easily recyclable at the end of their life cycle.

### Green Manufacturing

Green products can't be made without greener manufacturing processes, that's why ASUS adheres to strict guidelines to ensure that hazardous substances like lead and halogens are eliminated during production.

### Green Procurement

ASUS is not only committed to reducing its own environmental impact. By ensuring a greener supply chain, it is helping to ensure that steps from shipping to product packaging follow greener principles too.



## Service Coverage

1000+  
Service Centers

98+  
Countries

1000+ service centers located worldwide covering more than 98 Countries.

## Industry Leading Quality and Reliability

### Vibration Test



Ensures the frame, body and all components are properly secured and built to last.

### Voltage and Frequency Test



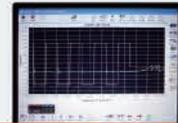
Ensures the system remain fully functional in all regions, even when the local grid voltage and frequency reaches extremes or fluctuates as a result of heavy loading.

### Drop Test



Ensures all products can withstand even the roughest handling and shipping conditions.

### Thermal Shock Test



Ensures all components can cope with rapid, extreme temperature shifts.

### Noise Test



Eliminates unwanted noise and ensures volume levels and tones at idle and under full load cause minimal disturbance.

### Thermal Measurement Test



Every server and workstation is subjected to extensive heat tests to build a thermal profile that is then used to design cooling solutions.

### Temperature & Humidity Test



Ensures all components and the cooling system can withstand extreme temperatures ranging from -40°C to +60°C.

### Non-Operation Shock Test



Ensures systems and motherboards can withstand a wide range of real-world conditions, such as vibrations, knocks and bumps.



## Product Portfolio



### Accelerator Server

For AI and visual computing, the ESC series accelerator servers deliver extreme performance and stability with patterned electronic designs and high availability (HA) thermal solutions.



### Rack/Tower Server

ASUS offers a comprehensive rack/tower server product line featuring high computing density, high expandability, and high manageability, ideal for multi-workload.



### Workstation

Professional, ISV certified ESC/E series workstations have server-grade computing power, incredible expandability and advanced I/O, best suited for content creators, professional VR applications, and heavy entertainment loads.



### Server and Workstation Motherboard

ASUS offers the most reliable server and workstation motherboards with industry-leading performance, high power-efficiency, and complete IT infrastructure management.

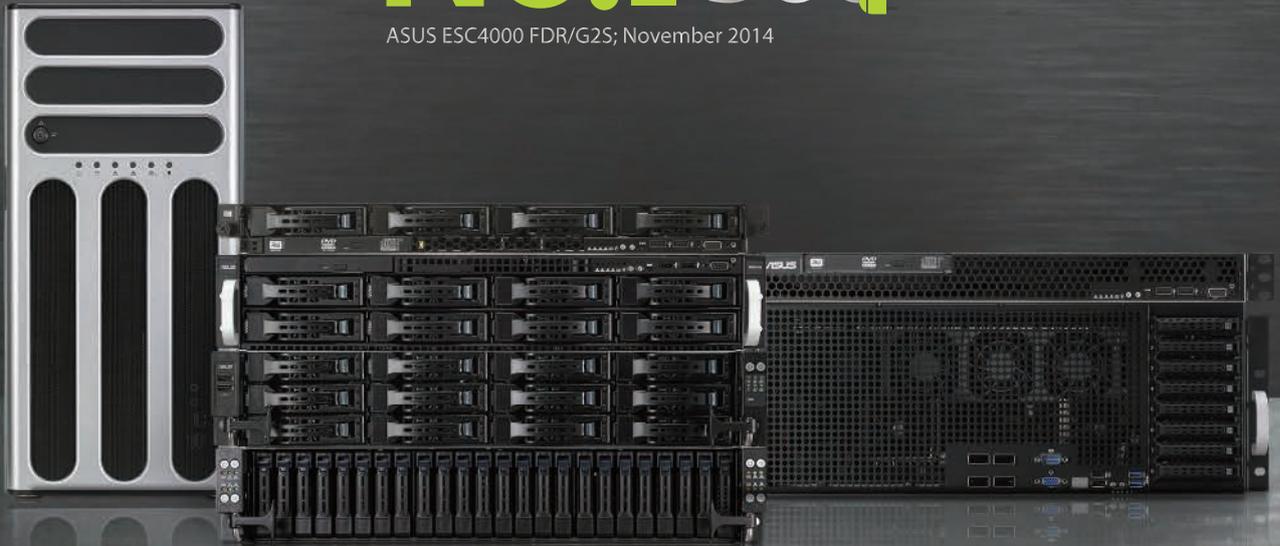


### Accessories

OCP Mezzanine cards, high speed LAN cards, and ASUS-exclusive PIKE RAID cards provide the fastest interconnects and highest storage expandability for datacenter topology.

# No.1 The GREEN 500

ASUS ESC4000 FDR/G2S; November 2014



## A Full Range of Intel® Xeon® Processors Solutions

### Multiple Processor Choices to Fit Your Requirements

- Intel® Xeon® Scalable Processors
- Intel® Xeon® E Processors

### ASUS Control Center

Server remote management to safeguard all of your devices

### Port-to-port NVMe SSD

Technology - 3X faster transit speed and dramatically reduce latency

### Exclusive Thermal Rader Design

1.2X better cooling efficiency and dynamically adjust fan speed

Intel Inside®. Powerful Productivity Outside.

Intel inside®. Extraordinary Performance Outside.  
Intel® Scalable processors.

Found at <https://www.asus.com/Commercial-Servers-Workstations/>





## Fully Optimized Certified Workstation for Professional Content Creators

### Graphic Design



### Engineering Design



### Virtual Reality





# ASUS AMD EPYC™ Platform Solutions

- ◆ **Best-in Class Performance** (SPEC.Org)
- ◆ **Flexible Expansion Design** (8+1 Expandability)
- ◆ **More Secure Protection**

## OUTSTANDING PERFORMANCE DRIVES BUSINESS AGILITY

**32** 24, 16, 8 cores per socket

Wide range of cores without sacrificing features

**128** PCIe® Gen 3 lanes in a single CPU

Large I/O capacity®

**8** Memory channels per CPU

Industry leading memory bandwidth

**2<sup>TB</sup>** RAM per socket

Rich memory density





**spec**

# **NO.1** 2P SERVER

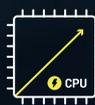
## **67** Benchmark World Records

### **Exclusive Performance Boost Technology**



#### **ASUS Core Optimizer**

Maximizes the processor frequency in multi-core operations, avoiding frequency shifting for reduced latency



#### **ASUS Engine Boost**

Automatic power acceleration with an innovative voltage design to increase server overall performance



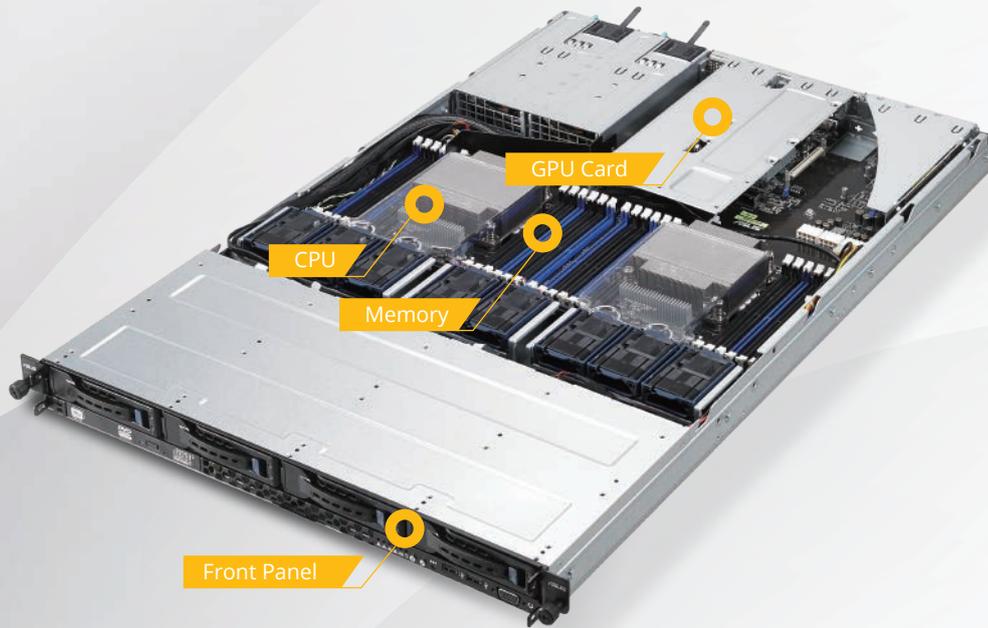
#### **Preconfigured Settings for Optimization**

Preconfigured BIOS server profiles based on workloads and benchmarks for improved performance and efficiency

\* All results can be verified on [spec.org](https://www.spec.org), August 1st, 2018  
\* Product specifications are subject to change without notice. Please contact your suppliers or local representatives for exact product information.  
\* For more information, please go to <https://www.asus.com/Commercial-Servers-Workstations/>

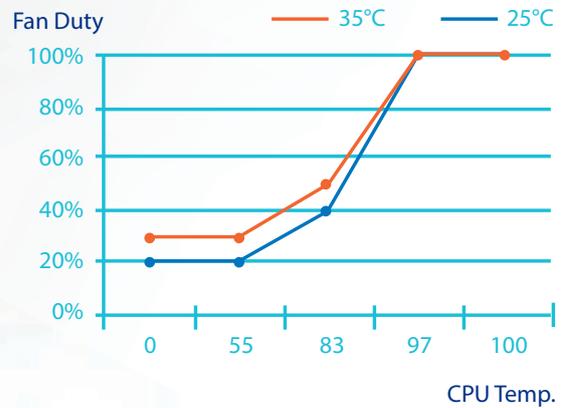
# Smart Thermal Radar Technology

More ambient thermal sensors in multiple locations to detect environmental temperatures.



ASUS-exclusive Thermal Radar technology for rack and accelerator servers provides more ambient thermal sensors for improved internal and external temperature monitoring and enables dynamic fan curve adjustment.

This smart thermal design reduces fan power consumption by up to 20% and reduces TCO for non-stop datacenter operation.



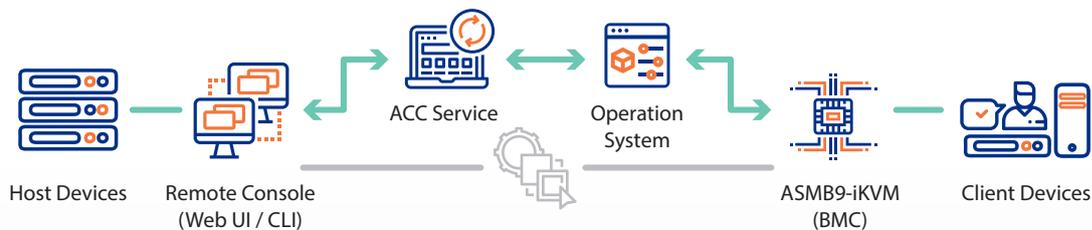
**1.2x** Better Cooling Efficiency

Dynamically changes fan speed for different thermal areas to achieve better power efficiency



# Comprehensive IT Infrastructure Management Solution

## IN-BAND



## OUT-OF-BAND



## ASMB9-iKVM

- Remote server management for troubleshooting, remote OS installation and fan control
- 24/7 monitoring of system status such as temperatures, voltages and fans
- Web-based UI control with high compatibility and security (HTML, HTTPS and Redfish support)

## ASUS Control Center

- A centralized IT management software
- Faster and easier for centralized task scheduling and batch deployment
- Web-based user-friendly GUI design with access to devices from anywhere



To find out more about ASUS Control Center, please visit <https://asuscontrolcenter.asus.com/>



## Virtualization Solutions

Server virtualization is a software architecture that allows more than one server operating system to run as a guest on a given physical server host. With the server software abstracted away from the physical machine in this way, the server becomes a "virtual machine," though the server "thinks" it is running exclusively on the compute and memory resources. It's actually running on a virtual imitation of the server hardware.

Server virtualization enables more efficient use of IT resources than was previously possible. Before server virtualization, it was common to have under and over-utilized hardware in the same data center. With virtualization, one can move workloads between virtual machines according to load. The same physical server can also run multiple server operating systems and configurations, further increasing efficiency. Server virtualization is the basis for cloud computing and hybrid IT.

- ◆ Run multiple applications and operating systems independently on a single server
- ◆ Move workloads easily from one virtual workspace to another
- ◆ Configure and deploy new servers in a few minutes instead of hours
- ◆ Reduce equipment and maximize server resources
- ◆ Lower data center costs significantly with power and labor savings

ASUS servers offer you an extensive, adaptable server virtualization with VMWare certification. Working with ASUS server virtualization means you get fast deployment, performance at scale, efficiency and the ability to provide high availability.





 <b>Form Factor</b>   1U	 <b>CPU Number</b>   2	 <b>PCIe Gen3x16 Link</b>   1
 <b>Memory Number</b>   24	 <b>NVMe</b>   6	 <b>Graphic Card</b>   1 Single Deck

## RS700-E9-RS12

**High-performance 1U server with great scalability and expandability for dense compute environment**

This density-optimized server maximizes data center efficiency by delivering uncompromised performance and expandable storage.

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>UPI Speeds</b>	10.4 GT/s
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Drive Bays</b>	12
<b>Additional OS Drive</b>	2 X M.2
<b>Networking</b>	OCP Adaptor up to 100 Gb/s LAN



 <b>Form Factor</b>   2U	 <b>CPU Number</b>   2	 <b>PCIe Gen3x16 Link</b>   2
 <b>Memory Number</b>   16	 <b>NVMe</b>   4	

## RS520-E9-RS12-E

**Great balance on performance, efficiency, and manageability for multi-workload**

Fulfill a variety of demands with dual processors that offers an ideal balance of computing power, storage, and cost.

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>UPI Speeds</b>	10.4 GT/s
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Drive Bays</b>	12
<b>Additional OS Drive</b>	2 X M.2
<b>Networking</b>	OCP Adaptor up to 100 Gb/s LAN



 <b>Form Factor</b>   2U	 <b>CPU Number</b>   2	
 <b>Memory Number</b>   16	 <b>NVMe</b>   2	 <b>Graphic Card</b>   4 Double Deck

## ESC4000 G4

**GPU-optimized 2U server with hybrid storage availability and expandability**

With powerful processors, large memory capacity, hybrid storage and support for up to 4 GPUs, ESC4000 G4 is fully optimized for tackling highly demanding environments and maximizing performance efficiency.

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>UPI Speeds</b>	10.4 GT/s
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Drive Bays</b>	8
<b>Additional OS Drive</b>	1 X M.2
<b>Networking</b>	Adaptor up to 100 Gb/s LAN



## Container Solutions

Containers, a lightweight way to virtualize applications, are an important element of any DevOps plan. Container orchestration programs such as Kubernetes, Mesosphere Marathon, and Docker swarm mode make it possible to manage containers in easier ways. Kubernetes is an open-source system for automating deployment, scaling and management of containerized applications. It groups containers that make up an application into logical units for easy management and discovery. Kubernetes builds upon 15 years of experience of running production workloads at Google, combined with best-of-breed ideas and practices from the community.

Containers represent great change: typically a company can run 4X the number of containers vs. virtual machines for the same workload/capacity. Containers and VMs can also run together, depending on need.

ASUS provides simple K8s (Kubernetes) deployment software that is easy to set up and scale out from one node depending on users' scenarios. Easy deployment and maintenance are key factors for container solutions. With fine-tuned hardware configurations, ASUS offers a better container solution than the original Kubernetes solution with easy scale-out, deployment and multi-tenant management, and can satisfy a wide variety of use cases needed in enterprise settings.





 <b>Form Factor</b>   2U	 <b>CPU Number</b>   2	 <b>PCIe Gen3x16 Link</b>   2
 <b>Memory Number</b>   16	 <b>NVMe</b>   4	

## RS520-E9-RS8-E

**Great balance on performance, efficiency, and manageability for multi-workload**

Fulfill a variety of demands with dual processors that offers an ideal balance of computing power, storage, and cost.

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>UPI Speeds</b>	10.4 GT/s
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Drive Bays</b>	8
<b>Additional OS Drive</b>	2 X M.2
<b>Networking</b>	OCP Adaptor up to 100 Gb/s LAN

## RS540-E9-RS36-E

**Great balance on performance, efficiency, and manageability for multi-workload**

Fulfill a variety of demands with dual processors that offers an ideal balance of computing power, storage, and cost.

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>UPI Speeds</b>	10.4 GT/s
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Drive Bays</b>	36
<b>Additional OS Drive</b>	2 X M.2
<b>Networking</b>	OCP Adaptor up to 100 Gb/s LAN



 <b>Form Factor</b>   4U	 <b>CPU Number</b>   2	 <b>PCIe Gen3x16 Link</b>   2
 <b>Memory Number</b>   16		



## Artificial Intelligence Solutions

AI is based on algorithms and it is used as a computing power to solve specific problems faster and often more accurately than humans can. Much of AI is based on statistics and finding trends and patterns in data.

AI can do a variety of things that a human would have to use intelligence to do, such as analyzing, planning, problem solving, learning and adapting. Anything that makes a system clever is considered AI. Machine learning, which is another part of AI, takes information and learns and adapts as it gathers new data.

ASUS has great experience in designing GPGPU servers for AI applications. ESC8000 G4 and ESC4000 G4 are suitable for model training and machine learning. ESC8000 G4 can house up to eight GPU cards (NV V100 32GB), and the patented ASUS-exclusive Adaptable Topology design enables switching between a single and dual root via software. ESC4000 G4 can hold up to four GPU cards for AI training and up to eight GPU cards for inferencing. ASUS GPGPU servers enable a wide range of possibilities to customers in AI fields based on their needs.





## ESC8000 G4/10G

**GPU-optimized 4U server with high scalability and patented Adoptable Topology design**

ESC8000 G4 features a patented Adoptable Topology design equipped with up to 8 GPUs support for deep learning or AI requirements, allowing your system to switch topology configurations without changing hardware or cable routing.

 <b>Form Factor</b>	4U	 <b>CPU Number</b>	2
 <b>Memory Number</b>	24	 <b>NVMe</b>	2
		 <b>Graphic Card</b>	8 Double Deck

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>UPI Speeds</b>	10.4 GT/s
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Drive Bays</b>	8
<b>Additional OS Drive</b>	2 x M.2
<b>Networking</b>	Adaptor up to 100 Gb/s LAN

## ESC4000 G4S

**GPU-optimized 2U server with hybrid storage availability and expandability**

With powerful processors, large memory capacity, hybrid storage and support for up to 4 GPUs, ESC4000 G4 is fully optimized for tackling highly demanding environments and maximizing performance efficiency.

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>UPI Speeds</b>	10.4 GT/s
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Drive Bays</b>	8
<b>Additional OS Drive</b>	1 X M.2
<b>Networking</b>	Adaptor up to 100 Gb/s LAN



 <b>Form Factor</b>	2U	 <b>CPU Number</b>	2
 <b>Memory Number</b>	16	 <b>NVMe</b>	2
		 <b>Graphic Card</b>	4 Double Deck



## High Performance Computing Solutions

High Performance Computing (HPC) has always been the proving ground for technologies that eventually find their way into mainstream computing. ASUS and its customers have pioneered several of those technologies, and through these types of close collaborations, ASUS can provide what customers need in a HPC cluster, be it raw performance, energy efficiency, price-performance or implementation help.

ASUS can help customers design their own symmetric or cluster architectures and build it to their specifications, help deploy it and ensure it meets their requirements. Engaging in more HPC projects in

industry, research, government and education sectors enables ASUS to help customers to benchmark applications and find optimum configurations. ASUS has received great results on benchmarks for HPC evaluation and is able to provide these workload settings to customers, so they can experience the same high levels of performance for their own applications.





## RS720Q-E9-RS24-S

**High-density 2U4N server with great scalability for compute-intensive workloads**

This high-density server designed for compute-intensive workloads such as data-center, data-analysis and private-cloud applications. RS720Q-E9-RS24-S greatly accelerates performance while sharply cutting down TCO through its shared infrastructure and high density.

 <b>Form Factor</b>	2U	 <b>CPU Number</b>	8	 <b>PCIe Gen3x16 Link</b>	1
 <b>Memory Number</b>	12	 <b>NVMe</b>	8		

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>UPI Speeds</b>	10.4 GT/s
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Drive Bays</b>	24
<b>Networking</b>	OCP Adaptor up to 100 Gb/s LAN



## RS700-E9-RS12

**High-performance 1U server with great scalability and expandability for dense compute environment**

This density-optimized server maximizes data center efficiency by delivering uncompromised performance and expandable storage.

 <b>Form Factor</b>	1U	 <b>CPU Number</b>	2	 <b>PCIe Gen3x16 Link</b>	1
 <b>Memory Number</b>	24	 <b>NVMe</b>	6	 <b>Graphic Card</b>	1

Single Deck

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>UPI Speeds</b>	10.4 GT/s
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Drive Bays</b>	12
<b>Additional OS Drive</b>	2 X M.2
<b>Networking</b>	OCP Adaptor up to 100 Gb/s LAN



## RS520-E9-RS12-E

**Great balance on performance, efficiency, and manageability for multi-workload**

Fulfill a variety of demands with dual processors that offers an ideal balance of computing power, storage, and cost.

 <b>Form Factor</b>	2U	 <b>CPU Number</b>	2	 <b>PCIe Gen3x16 Link</b>	2
 <b>Memory Number</b>	16	 <b>NVMe</b>	4		

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>UPI Speeds</b>	10.4 GT/s
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Drive Bays</b>	12
<b>Additional OS Drive</b>	2 X M.2
<b>Networking</b>	OCP Adaptor up to 100 Gb/s LAN



## Enterprise Solutions

For medium to large enterprises, and managed and cloud service providers, ASUS is recognized to have the optimum 2U—the most widely used server type, two-socket server with 67 No.1 benchmark world records for performance. ASUS 2U servers are engineered to deliver high performance with 205W CPUs, low-latency NVMe drives, and high-power GPUs for increased productivity in busy and competitive business environments.

With ASUS-exclusive Performance Boost technology, the highly flexible and configurable RS series rack server is the ideal platform for hyperconverged infrastructure (HCI) or software-defined storage (SDS) and recent emerging technologies like Openstack, container or other solutions. It creates a rock-solid base for transforming physical resources into services using validated designs for hybrid cloud, performing analytics on streaming data using validated designs for Big Data, and increasing productivity of virtualized transactional systems.

Facing different kinds of applications in enterprise scenarios, RS series rack server provides the balance of compute to I/O that gives users the freedom to take on challenging data-intensive projects. Different workloads and use cases need different kinds of parameters to optimize. With profound experience in performance optimization with ASUS Performance Boost technology, ASUS servers let users adopt settings for their own needs and even set up their own parameters. For enterprise usage, it is optimized for software-defined settings, virtualization database analytics and so on.

ASUS servers are equipped with ASUS Control Center, exclusive management software that helps IT staff monitor hardware and software status, deploy software remotely, and perform inventory reporting. Increasing efficiency and productivity creates more value for customers, and ASUS Control Center is designed to be a great partner for enterprise software portfolios, fully integrating with existing databases to generate more valuable data for business decisions and IT infrastructure management.





 <b>Form Factor</b>	1U	 <b>CPU Number</b>	2	 <b>PCIe Gen3x16 Link</b>	1
 <b>Memory Number</b>	24	 <b>Graphic Card</b>	1	Single Deck	

## RS700-E9-RS4

**High-performance 1U server with great scalability and expandability for dense compute environment**

This density-optimized server maximizes data center efficiency by delivering uncompromised performance and expandable storage.

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>UPI Speeds</b>	10.4 GT/s
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Drive Bays</b>	4
<b>Additional OS Drive</b>	2 X M.2
<b>Networking</b>	OCP Adaptor up to 100 Gb/s LAN



 <b>Form Factor</b>	2U	 <b>CPU Number</b>	2	 <b>PCIe Gen3x16 Link</b>	2
 <b>Memory Number</b>	16	 <b>NVMe</b>	4		

## RS520-E9-RS8

**Great balance on performance, efficiency, and manageability for multi-workload**

Fulfill a variety of demands with dual processors that offers an ideal balance of computing power, storage, and cost.

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>UPI Speeds</b>	10.4 GT/s
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Drive Bays</b>	8
<b>Additional OS Drive</b>	2 X M.2
<b>Networking</b>	OCP Adaptor up to 100 Gb/s LAN



 <b>Form Factor</b>	1U	 <b>CPU Number</b>	2	 <b>PCIe Gen3x16 Link</b>	1
 <b>Memory Number</b>	16	 <b>NVMe</b>	4	 <b>Graphic Card</b>	1

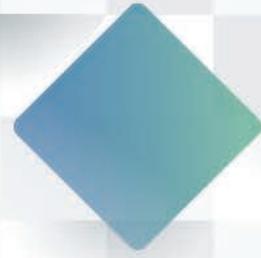
Single Deck

## RS500-E9-RS4-U

**Great balance on performance, efficiency, and manageability for dense compute environment**

This density-optimized server maximizes data center efficiency by delivering a budget-friendly, dual processors, and energy-efficient design.

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>UPI Speeds</b>	10.4 GT/s
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Drive Bays</b>	4
<b>Additional OS Drive</b>	2 X M.2
<b>Networking</b>	OCP Adaptor up to 100 Gb/s LAN



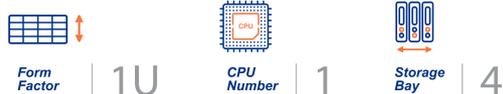
## Small and Medium Business Solutions

There are so many different ways in which you might use your server in your company and there is no one server category that fits everyone. Small to medium businesses may need anything from a simple file or web server to complicated storage and virtualization servers depending on business scale and service.

ASUS offers different kinds of server form factors — tower and rack-mount servers — for various space settings and IT designs. For example, ASUS offers tower servers, such as the TS100-E10 and TS300-E10 series, and rack servers such as the RS100-E10 and RS300-E10 series with Intel® Xeon® E processors. This is an optimized portfolio that would be ideal as a bare-metal virtualization host for smaller departments or organizations, with room to grow.

ASUS TS/RS series servers are ideal for daily applications, such as storage, file sharing, virtual desktops and entry-level virtualization, and facilitate increased efficiency and productivity for small and medium businesses. For growing businesses, ASUS TS/RS series servers are designed with for expansion with features such as extra storage bays. They are also equipped with ASUS Control Center, exclusive management software that helps IT staff monitor hardware and software status, deploy software remotely, and perform inventory reporting.



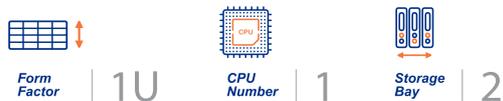


## RS300-E10-PS4

**CPU-optimized 1U server with flexible storage and expandability**

This server delivers high performance combined with storage and expansion flexibility for multiple workloads, making it the perfect choice for a firewall, gateway or business server. It also supports one graphics card for graphics-intensive applications.

<b>CPU</b>	Intel® Xeon® E processors (LGA1151)
<b>Chipset</b>	Intel® C242
<b>Power Supply</b>	400W 80 PLUS Gold Power Supply
<b>Dimension</b>	615mm x 444mm x 44mm

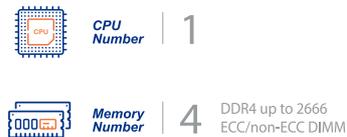


## RS100-E10-PI2

**Compact 1U server with hybrid storage and faster networking connectivity**

RS100-E10-PI2 features four LAN ports with teaming support for ultrafast connectivity. Designed with flexible storage expansion and graphics card support, RS100-E10-PI2 provides all workload requirements for SMB.

<b>CPU</b>	Intel® Xeon® E processors (LGA1151)
<b>Chipset</b>	Intel® C242
<b>Power Supply</b>	250W 80 PLUS Bronze Power Supply
<b>Dimension</b>	380mm x 430mm x 44mm

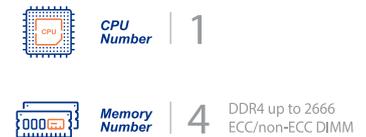


## TS300-E10-PS4

**5U tower server for business and data center environments**

TS300-E10-PS4 supports Intel® Xeon E processors and NVIDIA® Quadro graphics cards. Designed to fit into business environments, it can also be integrated easily into data centers as a rack server using the flexible tool-less rail kit.

<b>CPU</b>	Intel® Xeon® E processors (LGA1151)
<b>Chipset</b>	Intel® C246
<b>Power Supply</b>	500W 80 PLUS Gold Power Supply
<b>Dimension</b>	445mm x 217.5mm x 545mm



## TS100-E10-PS4

**Combat tower server for business applications**

TS100-E10-PS4 is an entry level business server for web, print and mail-server applications and features Intel® Xeon E processors and ECC memory to ensure reliable and responsive performance. It comes with ASUS Control Center for centralized and integrated IT management.

<b>CPU</b>	Intel® Xeon® E processors (LGA1151)
<b>Chipset</b>	Intel® C242
<b>Power Supply</b>	500W 80PLUS Gold / 300W 80PLUS Bronze
<b>Dimension</b>	423mm x 190mm x 435mm



# Workstation Solutions



With NVIDIA® Quadro and multi graphic cards, ASUS workstations can be used in content creation and media streaming. As close partnership with NVIDIA®, ASUS workstation continues to test and verify various new graphic cards to satisfy customers' requests in systems.



Independent software vendor (ISV) software is becoming an important factor to users in variety of industries. ASUS is working in close partnership with ISV vendors, including Adobe and Autodesk, to test and verify compatibility, making sure ASUS workstations are reliable, and highly effective for users in different fields.



Virtual reality (VR) is bringing more convenient, cost effective, and time-saving way for professionals across different industries. In architecture, mechanical or interior designing, users can use VR to experience a 360-degree view of their designs, giving engineers and designers a complete understanding of their products before production.

## Extreme Workstation

## Gaming Station



### E900 G4

 CPU Number | 2

 Memory Number | 12

#### Monster performance, the ultimate workstation

E900 G4 Supports up to 56 processing cores on the Intel® Xeon® Scalable processor. Featuring up to 4-way multi-graphic supported with genuine four PCIe Gen3 x16 link, E900 G4 uses new ID design on front bezel with ASUS branding which is user friendly, tool-less case design for hassle-free maintenance.

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA3647)
<b>Chipset</b>	Intel® C621
<b>Power Supply</b>	Redundant 2000W 80PLUS Titanium Power Supply
<b>Dimension</b>	532mm x 243mm x 582mm



### GS50

 CPU Number | 1

 Memory Number | 4

#### High-performance PC and workstation for rapid content creation, top-end gaming and immersive entertainment

GS50 , the first gaming station with the latest NVIDIA® GeForce RTX graphic card to empower more on ultimate entertainment experiences and helps content creators maximize their productivity. GS50 also balances uncompromised performance and quietness with the liquid cooling system and Intel® Xeon® W processor. Also coming with ECC memory to secure projects safely.

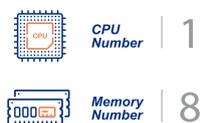
<b>CPU</b>	Intel® Xeon® W processors (LGA2066)
<b>Chipset</b>	Intel® C422
<b>Power Supply</b>	700W 80 PLUS Gold Power Supply
<b>Dimension</b>	578mm x 230mm x 525mm



## Mainstream Workstation



### ESC700 G4



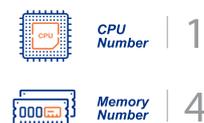
#### Multiple GPU Support , onboard BMC and ACC management

ESC700 G4 has two PCIe Gen 3 x16 slots supporting multi graphic cards. It also has ultra-fast storage and I/O options to choose from, such as onboard 2 x M.2 slots with M.2 heatsinks for optimum cooling and onboard U.2 ports with a 32 Gb/s SSD.

<b>CPU</b>	Intel® Xeon® W processors (LGA2066)
<b>Chipset</b>	Intel® C422
<b>Power Supply</b>	1200W 80PLUS Platinum/700W 80 PLUS Gold
<b>Dimension</b>	423mm x 190mm x 435mm



### E500 G5



#### Powerful, full-featured workstation

E500 G5 supports scalable expandability with NVIDIA® Quadro graphics cards. Featuring dual M.2 for up to 32Gbps performance and data redundancy as well as dual Intel® Gigabit LAN with teaming support, E500 G5 delivers maximum performance and faster connectivity.

<b>CPU</b>	Intel® Xeon® E processors (LGA1151)
<b>Chipset</b>	Intel® C246
<b>Power Supply</b>	700W 80 PLUS Gold
<b>Dimension</b>	423mm x 190mm x 435mm



# Server Motherboard

## Versatile server boards with standard form factor

ASUS provides versatile server boards with standard form factors, such as EEB, ATX, micro ATX, Mini-ITX and follows standard mounting hole locations. Users can choose a rack or tower server chassis that can be fitted in cabinets for enterprise usage, or even a PC ATX chassis which is a cost-effective and readily available form factor. These server boards allow users to build a competitive server with a wide variety of configuration choices.

## Comprehensive server management

The ASMB Series (IPMI 2.0-compliant) enables remote update BIOS, standalone KVM/Java utility, video recording and BSOD capture. Based on out-of-band management, even if the server operating system is down or offline, the KVM module can still provide round-the-clock remote monitoring and diagnosis through a web-based user-friendly graphical interface via all major browsers.

In addition, ASUS Control Center (ACC) software provides one-to-multiple centralized management including BIOS flash, software dispatch, task scheduler, remote control, and power control, all through a colorful and informative graphical interface. Through ASUS remote management solution, users can save time and effort on server management and troubleshooting.



## Z11PR-D16

**Intel® EEB motherboard with C621 chipset, 16 DIMMs, dual M.2, and 11 SATA**

Z11PR-D16 supports dual Intel® Xeon Scalable processors with highly expandable, ultrafast storage options and 16 DDR4 memory slots. Its rack-optimized design enables efficient airflow for excellent thermal performance.



CPU Number | 2



Memory Number | 16



SATA 6Gb/s ports | 11

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Expansion Slots</b>	7
<b>LAN Port</b>	2
<b>Form Factor</b>	EEB, 12" x 13"



## Z11PA-D8

**Intel® CEB motherboard with C621 chipset, 8 DIMMs, dual M.2, 16 SATA, and dual OcuLink for NVMe**

Z11PA-D8 supports dual Intel® Xeon Scalable processors with dual M.2 SATA SSDs, enabling top performance or data redundancy in RAID mode. Featuring dual onboard OcuLink to provide efficient connections with most OcuLink-supported NVMe devices, Z11PA-D8 eliminates the need for PCIe transaction cards.



CPU Number | 2



Memory Number | 8



SATA 6Gb/s ports | 16

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Expansion Slots</b>	3
<b>LAN Port</b>	4
<b>Form Factor</b>	CEB, 12" x 10.5"





## Z11PA-U12/10G-2S

**Intel® ATX motherboard with C622 chipset, 12 DIMMs, 13 SATA, dual Intel® 10G LAN and dual OCuLink for NVMe**

With built in dual Intel® 10G LAN, Z11PA-U12/10G-2S delivers blazingly fast networking speeds. Featuring dual M.2 for up to 32Gbps performance and data redundancy, it supports up to 2280-length M.2 drives for ultrafast data access.



CPU Number

| 2



Memory Number

| 12



SATA 6Gb/s ports

| 13

<b>CPU</b>	Intel® Xeon® Scalable processors (LGA 3647)
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Expansion Slots</b>	4
<b>LAN Port</b>	4
<b>Form Factor</b>	ATX, 12" x 9.6" (EEB Mounting Hole Locations)



## P11C-C/4L

**Intel® ATX motherboard with dual M.2, Quad LAN, 6 SATA, and USB 3.1 Gen 2 connectors**

P11C-C/4L supports Intel® Xeon E processors with four LAN ports with teaming support for ultrafast connectivity. It also features dual M.2 support for up to 32Gbps data-transfer speeds with native NVMe and multiple legacy PCI support for surveillance or industrial applications.



CPU Number

| 1



Memory Number

| 4



SATA 6Gb/s ports

| 6

<b>CPU</b>	Intel® Xeon® E Processors (LGA 1151)
<b>Chipset</b>	Intel® C242
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Expansion Slots</b>	4
<b>LAN Port</b>	4
<b>Form Factor</b>	ATX, 12" x 9.6"



## P11C-M/4L

### Intel® Micro-ATX motherboard with dual M.2, Quad LAN, 6 SATA, and USB 3.1 Gen 2 connectors

P11C M/4L is designed with a compact 9.6 x 9.6" size and a full range of features, including Intel® Xeon E processors, dual M.2 support for up to 32Gbps data-transfer speeds with native NVMe and dual PCIe expansion with a riser card.



CPU Number

1



Memory Number

4



SATA 6Gb/s ports

6

**CPU** Intel® Xeon® E Processors (LGA 1151)

**Chipset** Intel® C242

**Memory Type** DDR4 up to 2666 ECC/non-ECC UDIMM

**Expansion Slots** 2

**LAN Port** 4

**Form Factor** Micro ATX, 9.6" x 9.6"



## P11C-I

### Intel® Mini-ITX motherboard with M.2, 6 SATA, and USB 3.1 Gen 2 connectors

Designed with rack-optimized and space-saving in mind, P11C-I features one M.2 for faster data transfers and one PCIe x16 link for flexibility. Six onboard native SATA drives with mini SAS HD connector allows storage expansion.



CPU Number

1



Memory Number

2



SATA 6Gb/s ports

6

**CPU** Intel® Xeon® E Processors (LGA 1151)

**Chipset** Intel® C242

**Memory Type** DDR4 up to 2666 ECC/non-ECC UDIMM

**Expansion Slots** 1

**LAN Port** 2

**Form Factor** Mini-ITX, 6.7" x 6.7"

# Workstation Board

## Unleashing your graphic investment for maximum performance

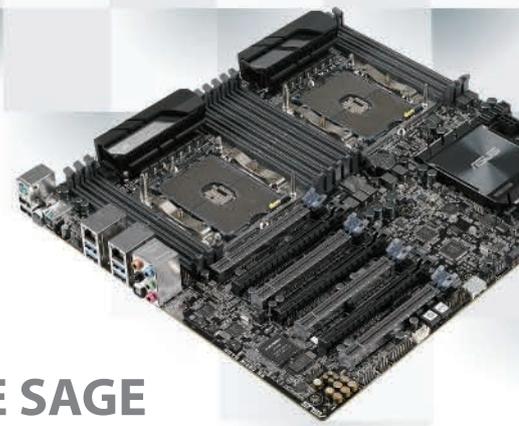
ASUS provides a variety of workstation motherboards that can accommodate up to four dual slot graphics cards, supporting up to 4-way multi graphic cards. Being the best choice for professionals who depend on powerful graphics performance for tasks such as modeling, design, simulation and 3D-rendering applications or even for multi-screen gaming and live streaming, ASUS workstation motherboards are always ready to run fast and smooth.

## Expandable and scalable, customize the configuration to fit your demands

ASUS workstation motherboards are built to fit ultra-fast storage and I/O devices. With onboard M.2 sockets and U.2 connectors, NVMe SSDs can operate with a bandwidth of 32Gbps for transfer bandwidths up to 5.3x faster than traditional storage devices. Also with the rear, backward-compatible USB 3.1 Gen 2 Type-A™, reversible USB 3.1 Gen 2 Type-C™ and future proof USB 3.1 Gen2 front-panel connector, you'll experience ultimate connection flexibility and blazing data-transfer speeds of up to 10Gbps.

## Stable, reliable and efficient

Each component is carefully chosen and validated to provide the best stability, reliability, and efficiency. PCIe slots are protected with ASUS SafeSlot, providing 1.6x stronger retention and 1.8x stronger shearing resistance. The DIMM slots are protected by the newly designed DDR4 Safe slots, and Dr. MOS, Beat Thermal Chokes, DIGI+VRM and ProCool Power connectors lower temperature and provide VR efficiency of +90%.



## WS C621E SAGE

**Intel® EEB motherboard with 12 DIMMs, 7 PCIe slots, 8 SATA, M.2 and 4 U.2, and USB 3.1 Gen 2 connectors**

WS C621E SAGE supports dual Intel® Xeon Scalable processors with highly expandable ultrafast storage options, 12 DDR4 memory slots and supports pure PCIe x16 links for 4-way multi-graphics cards, making it an excellent choice for memory or graphics-intensive applications.

 CPU Number	2	 Memory Number	12	 Graphic Card	4
--	---	---	----	--	---

<b>CPU</b>	Intel® Xeon® Scalable Processors (LGA 3647)
<b>Chipset</b>	Intel® C621
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Expansion Slots</b>	7
<b>LAN Port</b>	2
<b>Form Factor</b>	EEB, 12"x 13"



## WS X299 SAGE/10G

**Intel® CEB motherboard with quad-GPU support, dual M.2 & U.2, and USB 3.1 Gen 2 connectors**

WS X299 Sage/10G is designed for extreme overclockers with support for up to four dual-slot graphics cards and both NVIDIA® SLI™ and AMD CrossFireX™ 4-way configurations, enabling multi-GPU setups that harness the full power of the latest graphics technologies.

 CPU Number	1	 Memory Number	8	 Graphic Card	4
--	---	---	---	--	---

<b>CPU</b>	Intel® Core™ X-Series Processors (LGA2066)
<b>Chipset</b>	Intel® X299
<b>Memory Type</b>	DDR4 up to 4200 (O.C) Non-ECC/un-buffered Memory
<b>Expansion Slots</b>	7
<b>LAN Port</b>	2
<b>Form Factor</b>	CEB, 12"x 10.5"



## WS C422 SAGE/10G

**Intel® CEB motherboard with quad-GPU support, dual Intel® 10G LAN, dual M.2 & U.2, USB 3.1 Gen 2 connectors**

With built in dual Intel® 10GBASE-T networking, WS C422 Sage/10G increases data throughput and improves efficiency. Delivering ultimate graphics power with four dual-slot graphics cards, it is perfect for design, rendering and medical research.



CPU Number

| 1



Memory Number

| 8



Graphic Card

| 4

<b>CPU</b>	Intel® Core™ X-Series Processors (LGA2066)
<b>Chipset</b>	Intel® C422
<b>Memory Type</b>	DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS
<b>Expansion Slots</b>	7
<b>LAN Port</b>	2
<b>Form Factor</b>	CEB, 12"x 10.5"

## WS Z390 PRO

**Intel® ATX motherboard with AI overclocking, quad-GPU support, dual M.2, Intel® Optane ready and USB 3.1 Gen 2 connectors**

Designed for compute-intensive workloads, WS Z390 PRO blends tremendous GPU performance, comprehensive tuning options and robust connectivity for prosumers and content creators.



CPU Number

| 1



Memory Number

| 4



Graphic Card

| 4



<b>CPU</b>	Intel® Core™ i7/i5/i3 Processors (LGA 1151)
<b>Chipset</b>	Intel® Z390
<b>Memory Type</b>	DDR4 up to 4266(O.C.) Non-ECC/un-buffered Memory
<b>Expansion Slots</b>	5
<b>LAN Port</b>	2
<b>Form Factor</b>	ATX, 12" x 9.6"



## WS C246 PRO

**Intel® ATX motherboard with 6 PCIe slots, dual M.2, and USB 3.1 Gen 2 connectors**

WS C246 PRO features four PCIe x16 for flexible system configurability and expandability, as well as dual M.2 slots that fit up to 22110-length M.2 drives and provide up to 32Gbps transfer speeds for ultrafast data access redundancy.



CPU Number

1



Memory Number

4



Graphic Card

2

<b>CPU</b>	Intel® Xeon® E Processors (LGA 1151)
<b>Chipset</b>	Intel® C246
<b>Memory Type</b>	DDR4 up to 2666 ECC/non-ECC UDIMM
<b>Expansion Slots</b>	6
<b>LAN Port</b>	2
<b>Form Factor</b>	ATX, 12" x 9.6"



## WS C246M PRO

**Intel® Micro-ATX motherboard with M.2, 3 PCIe slots, and USB 3.1 Gen 2 connectors**

WS C246M PRO features a rack-optimized layout to maximize cooling efficiency for the best performance and stability, and has one M.2 slot that supports native NVMe for up to 32Gbps data-transfer speeds.



CPU Number

1



Memory Number

4



Graphic Card

1

<b>CPU</b>	Intel® Xeon® E Processors (LGA 1151)
<b>Chipset</b>	Intel® C246
<b>Memory Type</b>	DDR4 up to 2666 ECC/non-ECC UDIMM
<b>Expansion Slots</b>	3
<b>LAN Port</b>	2
<b>Form Factor</b>	Micro ATX, 9.6" x 9.6"

# Case Study

## Animation

With firm roots in producing commercial films, CGCG studio is one of the few companies in Taiwan that can produce large-scale international 3D animated films. CGCG studio is also a three-time winner of the SIGGRAPH\* awards and a designated partner of many international production companies. The company has co-produced a number of popular cartoons, including Bob the Builder (with SD Entertainment/HiT Entertainment), LEGO® BIONICLE®, the world-renowned 3D animated series Star Wars - The Clone Wars, and FanBoy and Chum Chum (with Nickelodeon Animation Studios).

### HIGH RELIABILITY AND SERVICEABILITY

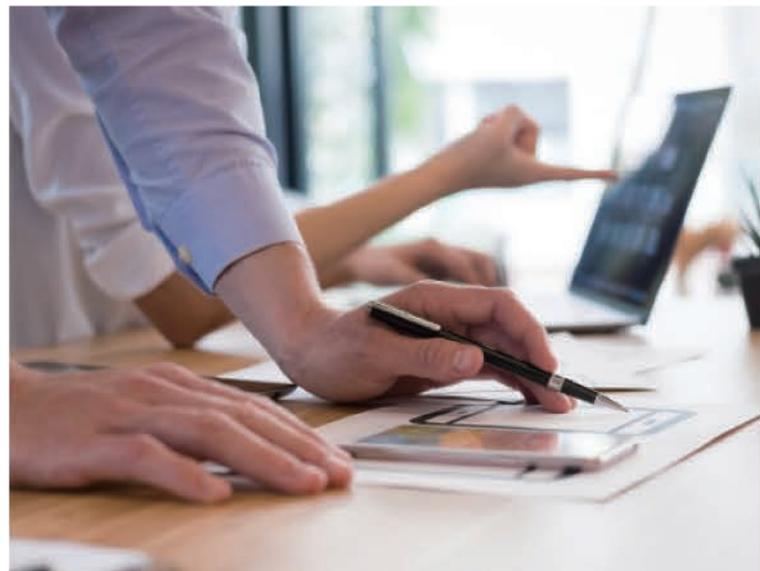
In order to refine animation quality with better 3D effects and improve production efficiency by reducing render times, the IT department of CGCG studio added 80 ASUS servers for the animation computing platform of the design team. Dong-Yuan Lu, Assistant Manager of the IT department at CGCG studio, said, "The ASUS servers have been highly stable during the 5-6 years of use. A few power supply units have required replacement, but this didn't affect the operations of the animation platform. ASUS quickly replaced the affected power supplies, and their responsive service became an important factor in our decision to work with ASUS over the long term. Now, when we have new projects, we naturally give priority to ASUS products, such as the ASUS RS720Q-E8-RS8-P server."

### POWERFUL PERFORMANCE WITH CUSTOMIZED DESIGN

The ASUS RS720Q-E8-RS8-P server introduced into the CGCG platform supports Intel's Xeon® E5-2600 series processor. A key feature of the server is its support for four independent nodes. Each node can be installed with two processors to provide up to 112 computing cores and 1024GB of memory, which is in line with the company's overall computing needs. The processor can also support the ASUS PIKE II expansion card, which supports 6GB/s SATA and 12GB/s SAS interfaces and provides RAID data protection, thereby expanding storage space, improving data read and write performance, and ensuring data stability during animation rendering. When designing the RS720Q-E8 server, ASUS decided to adopt a special funnel-shaped air duct design to complement its internal cabling configuration. The air duct guides air to effectively cool down each component without extra cooling fans.



\* SIGGRAPH (Special Interest Group on Computer GRAPHics and Interactive Techniques) is the annual conference on computer graphics (CG) convened by the ACM SIGGRAPH



Dong-Yuan Lu also mentioned, "ASUS servers have always been stable while providing high performance. The ASUS RS720Q-E8-RS8-P server design of its single-node expansion allows us to purchase computing resources required by the project as needed. That enables us to use our procurement budget effectively and also helps us avoid having idle computing resources."

---

**"THE ASUS RS720Q-E8-RS8-P SERVER HAS CUT OUR ANIMATION RENDERING TIME BY 50%."**

DONG-YUAN LU,  
ASSISTANT MANAGER,  
IT DEPARTMENT AT CGCG

---

## **PREMIUM COMPONENTS AND COOLING EFFICIENCY**

To ensure the quality of the ASUS RS720Q-E8-RS8-P server, the rare ASUS Beat Thermal Chokes and DrMOS 12K durable solid capacitors have been utilized in its design. This configuration improves calculation efficiency and reduces the generation of heat, enabling it to work for up to 12,000 hours in high-temperature environments. The server also uses two 80 PLUS 2000W platinum-grade power supplies that can be mutually redundant. So, in addition to having up to 94% power efficiency, even if one of the power supplies fails, there will be no interruption to the application service. When a faulty part is discovered, IT personnel can just quickly hot swap it out.

In order to cut down on server management times for IT personnel, ASUS also developed the ASMB-iKVM remote server management chip, which supports a web management interface and comes pre-installed in the server. Enterprise users can see the status of the server remotely without purchasing expensive KVM equipment, saving users the inconvenience of logging into each system, one by one, thereby helping companies improve overall work efficiency.



"ASUS gave us the software source code of the ASMB-iKVM remote server management chip, allowing us to further develop tools that can monitor processor operations. When it finds an animation operation that has failed, it automatically restarts the server." said by Dong-Yuan Lu.

There are currently more than 100 rack servers in CGCG's data center. The IT department has decided to purchase ASUS RS720Q-E8-RS8-P servers to gradually replace the old servers. This upgrade will allow CGCG to significantly reduce electricity costs while simplifying management of its entire data center.

---

**"ASUS SERVERS ALLOW OUR IT DEPARTMENT WITH ONLY FIVE PEOPLE EASILY MANAGE A DATA CENTER WITH MORE THAN ONE HUNDRED COMPUTERS."**

DONG-YUAN LU,  
ASSISTANT MANAGER,  
IT DEPARTMENT AT CGCG

---

# Case Study

---

## Academic

With the dramatic increase of computer processing power in recent years, artificial intelligence, deep learning and big data technologies are becoming more mature. These computing advances are enabling scientists to solve problems that used to be unsolvable, but many complex scientific problems remain. One of these challenges is the accurate prediction of natural disasters.

The Department of Earth Sciences at National Cheng Kung University (NCKU) in Taiwan is actively working on natural-disaster prediction and has created a high-performance computing (HPC) platform using two ASUS RS720Q-E8 servers and one ASUS RS520-E8 storage server to use for 3D full-waveform seismic tomography projects. This will help Taiwan establish a more comprehensive disaster prevention system.

### Disaster Prevention System Using HPC Platform

NCKU, which was founded in 1931, is one of the top national universities in Taiwan. In recent years, the Department of Earth Sciences has determined three main areas of focus, based on the specialties of the faculty and the requirements of society: mineral science, natural resources, and the global environment.

Taiwan is located in one of Earth's biggest seismic zones, and as a result Taiwan has suffered severe damage from earthquakes over the years. NCKU's Professor En-jui Lee, who had previously participated in a 3D full-waveform seismic tomography project in southern California, created a high-performance computing platform for a 3D full-waveform seismic tomography system and earth sciences in Taiwan, on a limited budget.



In recent years, the processing power of GPUs has greatly improved. CPUs and GPUs apply different strategies for their processing tasks. CPUs, which can have around a dozen cores, are used to optimize sequence processing. GPUs, on the other hand, have thousands of cores, and excel at processing multiple tasks at the same time in parallel. In this age of rapid developments in artificial intelligence and deep learning, GPUs have become an effective tool for scientists to achieve results much more quickly.

## IMPROVED PERFORMANCE AND FASTER CONNECTIVITY

Professor En-jui Lee noted that the objectives of 3D full-waveform seismic tomography can be divided into three aspects. Firstly, full wave field waveform analysis and simulations with multiple iterations are used to improve the resolution of current 3D velocity models. Secondly, strain tensors are calculated using stored high-resolution models, in order to improve the speed and accuracy of earthquake hypocenter simulations. Lastly, more accurate ground motion predictions are applied to improve the reliability of earthquake disaster analyses.

---

"ASUS OFFERS  
OUTSTANDING  
PERFORMANCE  
AND A HIGH LEVEL  
OF STABILITY."

---

The ASUS RS720Q-E8 server is a high-performance 2U4N server and is responsible in this project for the primary supercomputing task. The two Intel® Xeon® E5-2650 v4 processors and two 16GB DDR4 RAM modules, combined with a 10,000rpm SAS hard drive, can fully satisfy the high-performance computing requirements.

The ASUS RS720Q-E8 server supports Quad LAN functions. It can offer high network bandwidth and is equipped with load balancing and fault tolerance features, which means it can provide high-speed network connectivity.

Furthermore, the server uses a 1+1 770W 80Plus Gold redundant power supply, allowing it to satisfy the power requirements for HPC reliability. Its hot-swappable design means that the power supply can undergo maintenance and repair without having to shut down the server, thus ensuring the operations of key projects.



# AMD Rack Servers



**RS700A-E9-RS4**



**RS700A-E9-RS12**



**RS720A-E9-RS24-E**

<b>Motherboard</b>	KNPP-D32	KNPP-D32	KNPP-D32
<b>Processor</b>	2 x Socket SP3 (LGA 4094) AMD EPYC™ 7000 Series	2 x Socket SP3 (LGA 4094) AMD EPYC™ 7000 Series	2 x Socket SP3 (LGA 4094) AMD EPYC™ 7000 Series
<b>Chipset</b>	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)
<b>Memory</b>	32 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max. 4096GB	32 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max. 4096GB	32 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max. 4096GB
<b>VGA</b>	Aspeed AST2500 64MB	Aspeed AST2500 64MB	Aspeed AST2500 64MB
<b>Graphic</b>	N/A	N/A	N/A
<b>Expansion Slots</b>	Up to 4 slots 1 x PCIe x16 (FH,FL) 1 x PCIe x8 (LP, HL) 1 x PCIe x8 (LP, HL) 1 x 1 x OCP Mezzanine 2.0 X16	Up to 4 slots 1 x PCIe x16 (FH,FL) 1 x PCIe x8 (LP, HL) 1 x PCIe x8 (LP, HL) 1 x 1 x OCP Mezzanine 2.0 X16	Up to 9 slots 6 x PCIe x8 or 3 PCIe x16 (FH, HL) 1 x PCIe x16 LP 1 x PCIe x8 (Default for ASUS PIKE Card) 1 x OCP Mezzanine 2.0 X16
<b>Storage Controller</b>	Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	4 x 2.5" or 3.5" Hot-swap Storage Bays (SATA/SAS) 2 x M.2 (Up to 22110, SATA & PCIe mode)	12 x 2.5" Hot-swap Storage Bays (4 x NVMe + 4 x SATA/SAS/NVMe + 4 x SATA/SAS) 2 x M.2 (Up to 22110, SATA & PCIe mode)	24 x 2.5" Hot-swap Storage Bays (SATA/SAS) 2 x M.2 (Up to 22110, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet Adapter
<b>Optical Drive</b>	1 x Slim-type Optical Drive Bay	N/A	N/A
<b>Front I/O ports</b>	2 x USB 3.1 Gen1 ports 1 x VGA port	N/A	2 x USB 2.0 ports
<b>Rear I/O ports</b>	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port
<b>Security Options</b>	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)
<b>Management Solution</b>	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>	686mm x 444mm x 44mm(1U) 27" x 17.48" x 1.73"	686mm x 444mm x 44mm(1U) 27" x 17.48" x 1.73"	750mm x 444mm x 88mm(2U) 29.52" x 17.48" x 3.46"
<b>Net Weight Kg</b> <small>(CPU, DRAM &amp; HDD not included)</small>	11.85 kg	12.15 kg	16.85 kg
<b>Gross Weight Kg</b> <small>(CPU, DRAM &amp; HDD not included, Packing include)</small>	16.05 kg	15.75 kg	22 kg
<b>Power Supply</b> <small>(following different configuration by region)</small>	1+1 Redundant 800W 80 PLUS Platinum Power Supply	1+1 Redundant 800W 80 PLUS Platinum Power Supply	1+1 Redundant 1200W 80 PLUS Platinum Power Supply 1+1 Redundant 800W 80 PLUS Platinum Power Supply





**RS500A-E9-RS4-U**



**RS500A-E9-RS4**



**RS500A-E9-PS4**

<b>Motherboard</b>	KNPA-U16	KNPA-U16	KNPA-U16
<b>Processor</b>	1 x Socket SP3 (LGA 4094) AMD EPYC™ 7000 Series	1 x Socket SP3 (LGA 4094) AMD EPYC™ 7000 Series	1 x Socket SP3 (LGA 4094) AMD EPYC™ 7000 Series
<b>Chipset</b>	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)
<b>Memory</b>	16 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max. 2048GB	16 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max. 2048GB	16 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max. 2048GB
<b>VGA</b>	Aspeed AST2500 64MB	Aspeed AST2500 64MB	Aspeed AST2500 64MB
<b>Graphic</b>	N/A	N/A	N/A
<b>Expansion Slots</b>	Up to 3 slots 1 x PCIe 3.0 x16 (FH,HL) 1 x PCIe 3.0 x8 (FH,HL) 1 x OCP Mezzanine 2.0 x8	Up to 3 slots 1 x PCIe 3.0 x16 (FH,HL) 1 x PCIe 3.0 x8 (FH,HL) 1 x OCP Mezzanine 2.0 x8	Up to 3 slots 1 x PCIe 3.0 x16 (FH,HL) 1 x PCIe 3.0 x8 (FH,HL) 1 x OCP Mezzanine 2.0 x8
<b>Storage Controller</b>	Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	4 x 3.5 or 2.5" Hot-swap Storage Bays (SATA/SAS/NVMe) 2 x M.2 (Up to 22110, SATA & PCIe mode)	4 x 3.5 or 2.5" Hot-swap Storage Bays (SATA/SAS) 2 x M.2 (Up to 22110, SATA & PCIe mode)	4 x 3.5 or 2.5" Hot-swap Storage Bays (SATA/SAS) 2 x M.2 (Up to 22110, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 56Gb/s InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 56Gb/s InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 56Gb/s InfiniBand Adapter
<b>Optical Drive</b>	1 x Slim-type Optical Drive Bay	1 x Slim-type Optical Drive Bay	1 x Slim-type Optical Drive Bay
<b>Front I/O ports</b>	2 x USB 3.1 Gen1 ports 1 x VGA port	2 x USB 3.1 Gen1 ports 1 x VGA port	2 x USB 3.1 Gen1 ports 1 x VGA port
<b>Rear I/O ports</b>	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port
<b>Security Options</b>	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)
<b>Management Solution</b>	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>	616 x 444 x 44mm(1U) 24.21" x 17.48" x 1.73"	616 x 444 x 44mm(1U) 24.21" x 17.48" x 1.73"	616 x 444 x 44mm(1U) 24.21" x 17.48" x 1.73"
<b>Net Weight Kg</b> <small>(CPU, DRAM &amp; HDD not included)</small>	11 kg	11 kg	10 Kg
<b>Gross Weight Kg</b> <small>(CPU, DRAM &amp; HDD not included, Packing include)</small>	17 kg	17 kg	16 Kg
<b>Power Supply</b> <small>(following different configuration by region)</small>	1+1 Redundant 770W 80 PLUS Platinum Power Supply	1+1 Redundant 770W 80 PLUS Platinum Power Supply	Single 650W 80 PLUS Platinum Power Supply

For details, please visit our website.  
All specs are subject to change without any prior notice.



# Rack Servers



4U, 8 GPU, 3TB DDR4

ESC8000 G4



4U, 8 GPU, 3TB DDR4, 10GbE

ESC8000 G4/10G



2U, 4 GPU, 2TB DDR4, 8 2.5" Storage

ESC4000 G4S

	ESC8000 G4	ESC8000 G4/10G	ESC4000 G4S
<b>Motherboard</b>	Z11PG-D24	Z11PG-D24	Z11PG-D16
<b>Processor</b>	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 205W)	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 205W)	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 165W)
<b>Chipset</b>	Intel® C621	Intel® C621	Intel® C621
<b>Memory</b>	24 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 3072GB	24 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 3072GB	16 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 2048GB
<b>VGA</b>	Aspeed AST2500 64MB	Aspeed AST2500 64MB	Aspeed AST2500 64MB
<b>Graphic</b>	Up to 8 GPU Cards	Up to 8 GPU Cards	Up to 4 double deck GPU or 8 single deck GPU
<b>Expansion Slots</b>	Up to 11 slots 8 x PCIe x16 (FH,FL) Dual root topology: 2 x PCIe x16 (Gen3 x 16 link), LP, HL Single root topology: 1 x PCIe x16 (Gen3 x 16 link), LP, HL 1 x PCIe x8 (LP, HL)	Up to 11 slots 8 x PCIe x16 (FH,FL) Dual root topology: 2 x PCIe x16 (Gen3 x 16 link), LP, HL Single root topology: 1 x PCIe x16 (Gen3 x 16 link), LP, HL 1 x PCIe x8 (LP, HL)	Up to 11 slots 4 x PCIe x16 (FH, HL) or 8 x PCIe x8 (FH, HL) 1 x PCIe x16 & 1 x PCIe x8 (LP, HL) 1 x PCIe x8 (LP, HL); Default for PIKE II
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support Intel® VROC Software RAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support Intel® VROC Software RAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support Intel® VROC Software RAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	8 x 2.5" Hot-swap Storage Bays (8 x SATA or 6 x SATA + 2 x NVMe) 2 x M.2 (Up to 22110, SATA & PCIe mode)	8 x 2.5" Hot-swap Storage Bays (8 x SATA or 6 x SATA + 2 x NVMe) 2 x M.2 (Up to 22110, SATA & PCIe mode)	8 x 2.5" Hot-swap Storage Bays (8 x SATA or 6 x SATA + 2 x NVMe) 1 x M.2 (Up to 2280, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN 1 x Management port	2 x 10GbE LAN 1 x Management port	2 x 1GbE LAN 1 x Management port
<b>Optical Drive</b>	N/A	N/A	N/A
<b>Front I/O ports</b>	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x VGA port 1 x COM port	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x VGA port 1 x COM port	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports
<b>Rear I/O ports</b>	2 x RJ-45 ports 1 x RJ-45 Management port	2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen1 port 1 x VGA port 1 x RJ-45 Management port 2 x RJ-45 ports
<b>Security Options</b>	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)
<b>Management Solution</b>	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>	798mm x 439mm x 175.6mm(4U) 31.42" x 17.22" x 6.92"	798mm x 439mm x 175.6mm(4U) 31.42" x 17.22" x 6.92"	800mm x 440mm x 88mm(2U) 31.50" x 17.22" x 3.46"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	33.5 kg	33.5 kg	27.93 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	40.925 kg	40.925 kg	37.93 kg
<b>Power Supply</b> (following different configuration by region)	2+1 Redundant 1600W 80 PLUS Platinum Power Supply 2+1 Redundant 2200W 80 PLUS Platinum Power Supply	2+1 Redundant 1600W 80 PLUS Platinum Power Supply 2+1 Redundant 2200W 80 PLUS Platinum Power Supply	2+1 Redundant 1600W 80 PLUS Platinum Power Supply 2+1 Redundant 2200W 80 PLUS Platinum Power Supply





2U, 4 GPU, 2TB DDR4, 8 3.5" Storage

ESC4000 G4



2U, 4 GPU, 2 2.5"/3.5" Internal Cage

ESC4000 G4X



2U4N, HPC,  
8 NVMe/SATA/SAS+16 SATA/SAS

RS720Q-E9-RS24-S

<b>Motherboard</b>	Z11PG-D16	Z11PG-D16	Z11PH-D12
<b>Processor</b>	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 150W)	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 165W)	Per Node: 2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 165W)
<b>Chipset</b>	Intel® C621	Intel® C621	Intel® C621
<b>Memory</b>	16 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 2048GB	16 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 2048GB	12 x DIMM slots (per Node) DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 1536GB (per Node)
<b>VGA</b>	Aspeed AST2500 64MB	Aspeed AST2500 64MB	Aspeed AST2500 64MB
<b>Graphic</b>	Up to 4 double deck or 8 single deck GPU	Up to 4 double deck or 8 single deck GPU	N/A
<b>Expansion Slots</b>	Up to 11 slots 4 x PCIe x16 (FH, HL) or 8 x PCIe x8 (FH, HL) 1 x PCIe x16 & 1 x PCIe x8 (LP, HL) 1 x PCIe x8 (LP, HL); Default for PIKE II	Up to 10 slots 4 x PCIe x16 (FH, FL) or 8 x PCIe x8 (FH, FL) 1 x PCIe x16 & 1 x PCIe x8 (LP, HL)	Up to 2 slots (per Node) 1 x PCIe x16(LP, HL) 1 x OCP 2.0 Mezzanine x16
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support Intel® VROC Software RAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1	Per Node: Support RAID 0, 1 Onboard Broadcom SAS3008 12G Controller
<b>Storage Bays</b>	8 x 2.5" Hot-swap Storage Bays (8 x SATA or 6 x SATA + 2 x NVMe) 1 x M.2 (Up to 2280, SATA & PCIe mode)	2 x 3.5" or 2.5" internal Storage Cages (SATA) 1 x M.2 (Up to 2280, SATA & PCIe mode)	24 x 2.5" Hot-swap Storage Bays (8 x SATA/SAS/NVMe + 16 x SATA/SAS)
<b>Networking</b>	2 x 1GbE LAN 1 x Management port	2 x 1GbE LAN 1 x Management port	Per Node: 2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter
<b>Optical Drive</b>	N/A	N/A	N/A
<b>Front I/O ports</b>	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports	N/A
<b>Rear I/O ports</b>	2 x USB 3.1 Gen1 port 1 x VGA port 1 x RJ-45 Management port 2 x RJ-45 ports	2 x USB 3.1 Gen1 port 1 x VGA port 1 x RJ-45 Management port 2 x RJ-45 ports	Per Node: 2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port
<b>Security Options</b>	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)
<b>Management Solution</b>	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>	800mm x 440mm x 88mm(2U) 31.50" x 17.22" x 3.46"	800mm x 440mm x 88mm(2U) 31.50" x 17.22" x 3.46"	800mm x 444mm x 88mm(2U) 31.5" x 17.48" x 3.46"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	34.1 kg	26.1 kg	44 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	44.1 kg	36.1 kg	48 kg
<b>Power Supply</b> (following different configuration by region)	2+1 Redundant 1600W 80 PLUS Platinum Power Supply 2+1 Redundant 2200W 80 PLUS Platinum Power Supply	2+1 Redundant 1600W 80 PLUS Platinum Power Supply 2+1 Redundant 2200W 80 PLUS Platinum Power Supply	1+1 Redundant 1600W 80 PLUS Platinum Power Supply 1+1 Redundant 2200W 80 PLUS Platinum Power Supply





2U4N, HPC, 8 SATA/SAS/NVMe

RS720Q-E9-RS8-S



2U, 3TB DDR4, 24 SATA/SAS/NVMe, 2 M.2

RS720-E9-RS24-U



2U, 3TB DDR4, 24 SATA/SAS, 2M.2

RS720-E9-RS24-E

<b>Motherboard</b>	Z11PH-D12	Z11PP-D24	Z11PP-D24
<b>Processor</b>	Per Node: 2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 165W)	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 205W)	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 205W)
<b>Chipset</b>	Intel® C621	Intel® C621	Intel® C621
<b>Memory</b>	12 x DIMM slots (per Node) DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 1536GB (per Node)	24 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 3072GB	24 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 3072GB
<b>VGA</b>	Aspeed AST2500 64MB	Aspeed AST2500 64MB	Aspeed AST2500 64MB
<b>Graphic</b>	N/A	Up to 2 GPU Cards	Up to 2 GPU Cards
<b>Expansion Slots</b>	Up to 2 slots (per Node) 1 x PCIe x16 (LP,HL) 1 x OCP 2.0 Mezzanine x16	Up to 9 slots 6 x PCIe x16 (FH, HL) 1 x PCIe x16 (LP, HL) 1 x PCIe x16 (FH, HL) 1 x OCP 2.0 Mezzanine x16	Up to 9 slots 6 x PCIe x16 (FH, HL) 1 x PCIe x16 (LP, HL) 1 x PCIe x16 (FH, HL) 1 x OCP 2.0 Mezzanine x16
<b>Storage Controller</b>	Per Node: Support RAID 0, 1 Onboard Broadcom SAS3008 12G Controller	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support Intel® VROC Software RAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support Intel® VROC Software RAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	8 x 2.5" Hot-swap Storage Bays (SATA/SAS/NVMe)	24 x 2.5" Hot-swap Storage Bays (SATA/SAS/NVMe) 2 x M.2 (Up to 22110, SATA & PCIe mode)	24 x 2.5" Hot-swap Storage Bays (24 x SATA/SAS) 2 x M.2 (Up to 22110, SATA & PCIe mode)
<b>Networking</b>	Per Node: 2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter
<b>Optical Drive</b>	N/A	1 x External USB Optional Drive (option)	1 x External USB Optional Drive (option)
<b>Front I/O ports</b>	N/A	2 x USB 2.0 ports	2 x USB 2.0 ports
<b>Rear I/O ports</b>	Per Node: 2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port
<b>Security Options</b>	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)
<b>Management Solution</b>	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>	800mm x 444mm x 88mm(2U) 31.5" x 17.48" x 3.46"	750mm x 444mm x 88mm(2U) 29.52" x 17.48" x 3.46"	750mm x 444mm x 88mm(2U) 29.52" x 17.48" x 3.46"
<b>Net Weight kg</b>	39 kg	TBD	TBD
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included; Packing include)	43 kg	TBD	TBD
<b>Power Supply</b> (following different configuration by region)	1+1 Redundant 1600W 80 PLUS Platinum Power Supply 1+1 Redundant 2200W 80 PLUS Platinum Power Supply	1+1 Redundant 1600W 80 PLUS Platinum Power Supply	1+1 Redundant 800W 80 PLUS Platinum Power Supply 1+1 Redundant 1200W 80 PLUS Platinum Power Supply





**2U, 3TB DDR4,  
8 SATA/SAS+4 SATA/SAS/NVMe,**

**RS720-E9-RS12-E**



**2U, 3TB DDR4, 2 GPU**

**RS720-E9-RS8-G**



**2U, 3TB DDR4,  
4 x SATA/SAS+4 x SATA/SAS/NVMe**

**RS720-E9-RS8**

<b>Motherboard</b>	Z11PP-D24	Z11PP-D24	Z11PP-D24
<b>Processor</b>	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 205W)	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 165W)	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 205W)
<b>Chipset</b>	Intel® C621	Intel® C621	Intel® C621
<b>Memory</b>	24 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 3072GB	24 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 3072GB	24 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 3072GB
<b>VGA</b>	Aspeed AST2500 64MB	Aspeed AST2500 64MB	Aspeed AST2500 64MB
<b>Graphic</b>	Up to 2 GPU Cards	Up to 2 GPU Cards	Up to 2 GPU Cards
<b>Expansion Slots</b>	Up to 9 slots 6 x PCIe x16 (FH, HL) 1 x PCIe x16 (LP, HL) 1 x PCIe x16 (FH, HL) 1 x OCP 2.0 Mezzanine x16	Up to 7 slots 2 x PCIe x16 (FH, FL) 2 x PCIe x16 (FH, HL) 1 x PCIe x16 (LP, HL) 1 x PCIe x16 (FH, HL) 1 x OCP 2.0 Mezzanine x16	Up to 9 slots 6 x PCIe x16 (FH, HL) 1 x PCIe x16 (LP, HL) 1 x PCIe x16 (FH, HL) 1 x OCP 2.0 Mezzanine x16
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support Intel® VROC Software RAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support Intel® VROC Software RAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support Intel® VROC Software RAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	12 x 3.5" or 2.5" Hot-swap Storage Bays (8 x SATA/SAS + 4 x SATA/SAS/NVMe) 2 x 2.5" Hot-swap Storage Bays (Rear, 2 x SATA/NVMe, Option) 2 x M.2 (Up to 22110, SATA & PCIe mode)	8 x 3.5" or 2.5" Hot-swap Storage Bays (4 x SATA/SAS + 4 x SATA/SAS/NVMe) 2 x M.2 (Up to 22110, SATA & PCIe mode)	8 x 3.5" or 2.5" Hot-swap Storage Bays(4 x SATA/SAS + 4 x SATA/SAS/NVMe) 2 x 2.5" Hot-swap Storage Bays (Rear, 2 x SATA/NVMe, Option) 2 x M.2 (Up to 22110, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter
<b>Optical Drive</b>	1 x External USB Optical Drive (Option)	1 x Slim-type Optical Drive Bay	1 x Slim-type Optical Drive Bay
<b>Front I/O ports</b>	2 x USB 2.0 ports	2 x USB 3.1 ports Gen1 1 x VGA port	2 x USB 3.1 ports Gen1 1 x VGA port
<b>Rear I/O ports</b>	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port
<b>Security Options</b>	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)
<b>Management Solution</b>	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>	750mm x 444mm x 88mm(2U) 29.52" x 17.48" x 3.46"	750mm x 444mm x 88mm(2U) 29.52" x 17.48" x 3.46"	750mm x 444mm x 88mm(2U) 29.52" x 17.48" x 3.46"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	15.98 kg	15.98 kg	15.98 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	23.25 kg	23.25 kg	23.25 kg
<b>Power Supply</b> (following different configuration by region)	1+1 Redundant 800W 80 PLUS Platinum Power Supply 1+1 Redundant 850W 80 PLUS Titanium Power Supply	1+1 Redundant 1200W 80 PLUS Platinum Power Supply(for 165W CPU and below) 1+1 Redundant 1300W 80 PLUS Platinum Power Supply(for 205W CPU and below)	1+1 Redundant 800W 80 PLUS Platinum Power Supply 1+1 Redundant 850W 80 PLUS Titanium Power Supply



1U, 3TB DDR4, 12 Multi-Storage Bays

RS700-E9-RS12



1U, 3TB DDR4, Dual M.2 slots

RS700-E9-RS4



4U, 36 Storage Bays, Data Center

RS540-E9-RS36-E

	RS700-E9-RS12	RS700-E9-RS4	RS540-E9-RS36-E
<b>Motherboard</b>	Z11PP-D24	Z11PP-D24	Z11PR-D16
<b>Processor</b>	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 205W)	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (145W/165W)	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 85W)
<b>Chipset</b>	Intel® C621	Intel® C621	Intel® C621
<b>Memory</b>	24 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 3072GB	24 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 3072GB	16 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 2048GB
<b>VGA</b>	Aspeed AST2500 64MB	Aspeed AST2500 64MB	Aspeed AST2500 64MB
<b>Graphic</b>	Up to 1 GPU Card	Up to 1 GPU Card	N/A
<b>Expansion Slots</b>	Up to 4 slots 1 x PCIe x16 (FH, HL, Default NVMe4-OCuLink Card) 2 x PCIe x8 (LP, HL) 1 x OCP 2.0 Mezzanine x16	Up to 4 slots 1 x PCIe x16 (FH, HL) 2 x PCIe x8 (LP, HL) 1 x OCP 2.0 Mezzanine x16	Up to 7 slots 2 x PCIe x16 (LP, HL) 4 x PCIe x8 (LP, HL) 1 x OCP 2.0 Mezzanine x16
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support Intel® VROC Software RAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support Intel® VROC Software RAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support Intel® VROC Software RAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	12 x 2.5" Hot-swap Storage Bays: Option1: 2 x NVMe + 6 x NVMe/SATA + 4 x SATA Option2: 4 x NVMe/SATA + 8 x SATA/SAS Option3: 2 x NVMe + 2 x NVMe/SATA + 8 x SATA Option4: 4 x SATA + 8 x SATA/SAS Option5: 2 x Dummy + 10 x SATA 2 x M.2 (Up to 22110, SATA & PCIe mode)	4 x 3.5" or 2.5" Hot-swap Storage Bays 2 x M.2 (Up to 22110, SATA & PCIe mode)	24 x Front Hot-Swap 3.5" or 2.5" Storage Bays 12 x Rear Hot-Swap 3.5" or 2.5" Storage Bays 2 x Hot-Swap 2.5" Storage Bays (Rear) 2 x M.2 (Up to 2280, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter
<b>Optical Drive</b>	N/A	1 x Slim-type Optical Drive Bay	N/A
<b>Front I/O ports</b>	N/A	2 x USB 3.1 ports Gen1 1 x VGA port	2 x USB 2.0 ports
<b>Rear I/O ports</b>	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port
<b>Security Options</b>	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)
<b>Management Solution</b>	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>	686mm x 444mm x 44mm(1U) 27" x 17.48" x 1.73"	686mm x 444mm x 44mm(1U) 27" x 17.48" x 1.73"	615mm x 447mm x 176mm (4U) 24.21" x 17.6" x 6.92"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	16.8 kg	16.5 kg	27.73 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	18.35 kg	18.05 kg	36.1 kg
<b>Power Supply</b> (following different configuration by region)	1+1 Redundant 800W 80 LUS Platinum Power Supply	1+1 Redundant 800W/550W 80 PLUS Platinum Power Supply	1+1 Redundant 800W 80 PLUS Platinum Power Supply





2U, 2 M.2,  
8 x SATA/SAS+4 x SATA/SAS/NVMe

**RS520-E9-RS12-E**



2U, 2 M.2,  
4 x SATA/SAS+4 x SATA/SAS/NVMe

**RS520-E9-RS8**



1U, 2 M.2,  
2TB DDR4, 4 SATA/SAS/NVMe

**RS500-E9-RS4-U**

<b>Motherboard</b>	Z11PR-D16	Z11PR-D16	Z11PR-D16-DC
<b>Processor</b>	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 150W)	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 150W)	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 205W)
<b>Chipset</b>	Intel® C621	Intel® C621	Intel® C621
<b>Memory</b>	16 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 2048GB	16 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 2048GB	16 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 2048GB
<b>VGA</b>	Aspeed AST2500 64MB	Aspeed AST2500 64MB	Aspeed AST2500 64MB
<b>Graphic</b>	N/A	N/A	N/A
<b>Expansion Slots</b>	Up to 7 slots 2 x PCIe x16 (LP, HL) 4 x PCIe x8 (LP, HL) 1 x OCP 2.0 Mezzanine x16	Up to 7 slots 2 x PCIe x16 (LP, HL) 4 x PCIe x8 (LP, HL) 1 x OCP 2.0 Mezzanine x16	Up to 3 slots 1 x PCIe x16 (FH,HL) 1 x PCIe x8 (FH,HL) 1 x OCP 2.0 Mezzanine x16
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support Intel® VROC Software RAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support Intel® VROC Software RAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	12 x 3.5" or 2.5" Hot-swap Storage Bays (Up to 4 NVMe) 2 x 2.5" Hot-Swap Storage Bays (Rear) 2 x M.2 (Up to 2280, SATA & PCIe mode)	8 x 3.5" or 2.5" Hot-swap Storage Bays (Up to 4 NVMe) 2 x 2.5" Hot-Swap Storage Bays (Rear) 2 x M.2 (Up to 2280, SATA & PCIe mode)	4 x 3.5" or 2.5" Hot-swap Storage Bays (SATA/SAS/NVMe) 2 x M.2 (Up to 22110, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter
<b>Optical Drive</b>	1 x External USB Optical Drive (Option)	1 x slim-type Optical Drive Bay	1 x slim-type Optical Drive Bay
<b>Front I/O ports</b>	2 x USB 2.0 ports	2 x USB 3.1 Gen1 ports 1 x VGA port	2 x USB 3.1 Gen1 ports 1 x VGA port
<b>Rear I/O ports</b>	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port
<b>Security Options</b>	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)
<b>Management Solution</b>	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>	615mm x 444mm x 88mm (2U) 24.21" x 17.48" x 3.46"	615mm x 444mm x 88mm (2U) 24.21" x 17.48" x 3.46"	616 x 444 x 44mm (1U) 24.21" x 17.48" x 1.73"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	24.55 kg	19.7 kg	11 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	30.1 kg	27.97 kg	17 kg
<b>Power Supply</b> (following different configuration by region)	1+1 Redundant 800W 80 PLUS Platinum Power Supply	1+1 Redundant 800W 80 PLUS Platinum Power Supply	1+1 Redundant 770W 80 PLUS Platinum Power Supply 1+1 Redundant 450W 80 PLUS Gold Power Supply





1U, 2TB DDR4, 4 SATA/SAS, 2 M.2

RS500-E9-RS4



1U, 2TB DDR4, 4 SATA/SAS, 2 M.2

RS500-E9-PS4



1U, New Mehlow Platform, 1+1 RPSU

RS300-E10-RS4

<b>Motherboard</b>	Z11PR-D16-DC	Z11PR-D16-DC	P11C-C/4L/SYS
<b>Processor</b>	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 205W)	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 165W)	1 x Socket H4 (LGA1151) Intel® Xeon® E processors (Up to 95W)
<b>Chipset</b>	Intel® C621	Intel® C621	Intel® C242
<b>Memory</b>	16 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 2048GB	16 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 2048GB	4 x DIMM slots DDR4 up to 2666 ECC/non-ECC UDIMM Max 64GB
<b>VGA</b>	Aspeed AST2500 64MB	Aspeed AST2500 64MB	Aspeed AST2500 32MB
<b>Graphic</b>	N/A	N/A	N/A
<b>Expansion Slots</b>	Up to 3 slots 1 x PCIe x16 (FH,HL) 1 x PCIe x8 (FH,HL) 1 x OCP 2.0 Mezzanine x16	Up to 3 slots 1 x PCIe x16 (FH,HL) 1 x PCIe x8 (FH,HL) 1 x OCP 2.0 Mezzanine x16	Up to 2 slots 2 x PCIe x8 (FH, HL)
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	4 x 3.5" or 2.5" Hot-swap Storage Bays (SATA/SAS) 2 x M.2 (Up to 22110, SATA & PCIe mode)	4 x 3.5" or 2.5" Hot-swap Storage Bays (SATA/SAS) 2 x M.2 (Up to 22110, SATA & PCIe mode)	4 x 3.5" or 2.5" Hot-swap Storage Bays (SATA/SAS) 2 x 2.5" Internal SSD bays 2 x M.2 (Up to 21100, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter	4 x 1GbE LAN 1 x Management port
<b>Optical Drive</b>	1 x Slim-type Optical Drive Bay	1 x Slim-type Optical Drive Bay	1 x Slim-type Optical Drive Bay
<b>Front I/O ports</b>	2 x USB 3.1 Gen1 ports 1 x VGA port	2 x USB 3.1 Gen1 ports 1 x VGA port	2 x USB 3.1 Gen1 ports 1 x VGA port
<b>Rear I/O ports</b>	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port	2 x USB 3.1 Gen2 ports 2 x USB 3.1 Gen1 ports 1 x VGA port 1 x External COM port 4 x RJ-45 ports 1 x RJ-45 Management port (Optional)
<b>Security Options</b>	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)
<b>Management Solution</b>	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	Optional ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>	616 x 444 x 44mm(1U) 24.21" x 17.48" x 1.73"	616 x 444 x 44mm(1U) 24.21" x 17.48" x 1.73"	615mm x 444mm x 44mm (1U) 24.21" x 17.48" x 1.73"
<b>Net Weight kg</b> <small>(CPU, DRAM &amp; HDD not included)</small>	11 kg	10 kg	12.87 kg
<b>Gross Weight kg</b> <small>(CPU, DRAM &amp; HDD not included, Packing include)</small>	17 kg	16 kg	18.99 kg
<b>Power Supply</b> <small>(following different configuration by region)</small>	1+1 Redundant 770W 80 PLUS Platinum Power Supply 1+1 Redundant 450W 80 PLUS Gold Power Supply	Single 650W 80 PLUS Platinum Power Supply	1+1 Redundant 450W 80 PLUS Gold Power Supply





1U, New Mehlow Platform, Single PSU



1U, New Mehlow Platform, 2 Internal Storage + 2 M.2



ESC8000 G3

	RS300-E10-PS4	RS100-E10-PI2	ESC8000 G3
<b>Motherboard</b>	P11C-C/4L/SYS	P11C-M/4L	Z10PG-D24
<b>Processor</b>	1 x Socket H4 (LGA1151) Intel® Xeon® E processors (Up to 95W)	1 x Socket H4 (LGA1151) Intel® Xeon® E processors (Up to 95W)	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (145W)
<b>Chipset</b>	Intel® C242	Intel® C242	Intel® C612
<b>Memory</b>	4 x DIMM slots DDR4 up to 2666 ECC/non-ECC UDIMM Max 64GB	4 x DIMM slots DDR4 up to 2666 ECC/non-ECC UDIMM Max 64GB	24 x DIMM slots DDR4 up to 2400 RDIMM/LR-DIMM Max 1536GB
<b>VGA</b>	Aspeed AST2500 32MB	Aspeed AST2500 32MB	Aspeed AST2400 32MB
<b>Graphic</b>	N/A	N/A	Up to 8 GPU Cards
<b>Expansion Slots</b>	Up to 2 slots 2 x PCIe x8 (FH, HL)	Up to 1 slot 1 x PCIe x16 (FH, HL)	Up to 10 slots Full-length/Full-height 8 x PCI-E 3.0 x16 (x16 Link) + 1 x PCI-E 3.0 x16 (x8 Link) Half-length/Low-profile 1 x PCI-E 3.0 x8 (x8 Link)
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support LSI® MegaRAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	4 x 3.5" or 2.5" Hot-Swap Storage Bays (SATA/SAS) 2 x 2.5" Internal SSD Bays 2 x M.2 (Up to 22110, SATA & PCIe mode)	2 x 3.5" Internal Storage Bays (Up to 1 x 3.5" HDD + 4 x 2.5" SSD) 2 x M.2 (Up to 22110, SATA & PCIe mode)	6 x 2.5" Hot-swap Storage Bays (SATA/SAS) 1 x M.2 (Up to 22110, SATA & PCIe mode)
<b>Networking</b>	4 x 1GbE LAN 1 x Management port	4 x 1GbE LAN 1 x Management port	2 x 1GbE LAN 1 x Management port
<b>Optical Drive</b>	1 x Slim-type Optical Drive Bay	1 x Slim-type Optical Drive Bay	N/A
<b>Front I/O ports</b>	2 x USB 3.1 Gen1 ports 1 x VGA port	2 x USB 3.1 Gen1 ports 1 x VGA port	1 x COM port 2 x USB 3.0 ports 2 x USB 2.0 ports 1 x VGA port
<b>Rear I/O ports</b>	2 x USB 3.1 Gen2 ports 2 x USB 3.1 Gen1 ports 1 x VGA port 1 x External COM port 4 x RJ-45 ports 1 x RJ-45 Management port (Optional)	2 x USB 3.1 Gen2 ports 2 x USB 3.1 Gen1 ports 1 x VGA port 1 x External COM port 4 x RJ-45 ports 1 x RJ-45 Management port (Optional)	2 x RJ-45 ports 1 x RJ-45 Management port
<b>Security Options</b>	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)
<b>Management Solution</b>	ASUS Control Center Optional ASMB9-iKVM for KVM-over-IP	ASUS Control Center Optional ASMB9-iKVM for KVM-over-IP	ASUS Control Center
<b>Dimension</b>	615mm x 444mm x 44mm (1U) 24.21" x 17.48" x 1.73"	380mm x 430mm x 44mm (1U) 14.96" x 16.93" x 1.73"	759mm x 447mm x 130.6mm (3U) 29.88" x 17.6" x 5.14"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	11.04 kg	7.5 kg	29.2 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	17.16 kg	11.72 kg	38.8 kg
<b>Power Supply</b> (following different configuration by region)	Single 400W 80 PLUS Gold Power Supply	Single 250W 80 PLUS Bronze Power Supply Single 350W 80 PLUS Gold Power Supply	2+1 Redundant 1600W 80 PLUS Platinum Power Supply



For more information, please visit our website.  
All specs are subject to change without any prior notice.



### ESC4000 G3

### ESC4000 G3S

### RS720Q-E8-RS12

<b>Motherboard</b>	Z10PG-D16	Z10PG-D16	Z10PH-D16
<b>Processor</b>	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (145W)	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (160W)	Per Node: 2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (120W)
<b>Chipset</b>	Intel® C612	Intel® C612	Intel® C612
<b>Memory</b>	16 x DIMM slots DDR4 up to 2400 RDIMM/LR-DIMM Max 1024GB	16 x DIMM slots DDR4 up to 2400 RDIMM/LR-DIMM Max 1024GB	16 x DIMM slots (per Node) DDR4 up to 2400 RDIMM/LR-DIMM/LR-DIMM 3DS Max 1024GB (per Node)
<b>VGA</b>	Aspeed AST2400 32MB	Aspeed AST2400 32MB	Aspeed AST2500 64MB
<b>Graphic</b>	Up to 4 GPU Cards	Up to 4 GPU Cards	N/A
<b>Expansion Slots</b>	Up to 10 slots 10 x PCIe x8 or 4 x PCIe x16 (FL, FH) + 2 x PCIe x8 Gen3	Up to 10 slots 10 x PCIe x8 or 4 x PCIe x16 (FL, FH) + 2 x PCIe x8 Gen3	Up to 2 slots (per Node) 1 x PCIe x16 (LP, HL) 1 x PCIe x8, proprietary
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support LSI® MegaRAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for PCIe RAID: Support LSI® MegaRAID Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Per Node: Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	8 x 2.5" Hot-swap Storage Bays (SATA/SAS)	6 x 2.5" Hot-swap Storage Bays (SATA/SAS)	Per Node: 12 x 3.5 or 2.5 Hot-swap Storage Bays (SATA/SAS) 1 x M.2 (Up to 2242, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN 1 x Management port	2 x 1GbE LAN 1 x Management port	Per Node: 2 x 1GbE LAN 1 x Management port
<b>Optical Drive</b>	1 x Slim-type Optical Drive Bay	N/A	N/A
<b>Front I/O ports</b>	2 x USB 2.0 ports 1 x Internal Serial Port	2 x USB 2.0 ports 1 x Internal Serial Port	N/A
<b>Rear I/O ports</b>	2 x USB 3.1 Gen1 ports 2 x RJ-45 ports 1 x RJ-45 Management port 1 x VGA port	2 x USB 3.1 Gen1 ports 2 x RJ-45 ports 1 x RJ-45 Management port 1 x VGA port	Per Node: 2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port
<b>Security Options</b>	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 1.2)
<b>Management Solution</b>	ASUS Control Center	ASUS Control Center	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>	750mm x 444mm x 87mm (2U) 29.52" x 17.48" x 3.46"	750mm x 444mm x 87mm (2U) 29.52" x 17.48" x 3.46"	750mm x 444mm x 88mm(2U) 29.52" x 17.48" x 3.46"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	19 kg	19 kg	39.92 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	29.8 kg	27.7 kg	43.92 kg
<b>Power Supply</b> (following different configuration by region)	1+1 Redundant 2000W 80PLUS Platinum Power Supply 1+1 Redundant 1620W 80PLUS Platinum Power Supply	1+1 Redundant 2000W 80PLUS Platinum Power Supply 1+1 Redundant 1620W 80PLUS Platinum Power Supply	1+1 Redundant 2200W 80 PLUS Platinum Power Supply 1+1 Redundant 1620W 80PLUS Platinum Power Supply





### RS720-E8-RS24-ECP

### RS700-E8-RS8 V2

### RS540-E8-RS36-ECP

<b>Motherboard</b>	Z10PE-D16	Z10PP-D24	Z10PR-D16
<b>Processor</b>	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (120W)	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (145W)	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (95W)
<b>Chipset</b>	Intel® C612	Intel® C612	Intel® C612
<b>Memory</b>	16 x DIMM slots DDR4 up to 2400 RDIMM/LR-DIMM/LR-DIMM 3DS Max 1024GB	24 x DIMM slots DDR4 up to 2400 RDIMM/LRDIMM Max 1536GB	16 x DIMM slots DDR4 up to 2400 RDIMM/LRDIMM Max 1024GB
<b>VGA</b>	Aspeed AST2500 64MB	Aspeed AST2400 32MB	Aspeed AST2400 32MB
<b>Graphic</b>	N/A	N/A	N/A
<b>Expansion Slots</b>	Up to 5 slots 3 x PCIe x16 (LP) 1 x PCIe x8 (LP) 1 x PCIe x4 (LP)	Up to 4 slots 1 x PCIe x16 (FH, HL) 1 x PCIe x8 (LP, HL) 1 x PCIe x8, proprietary for ASUS PIKE II 1 x OCP Mezzanine x8	Up to 4 slots 3 x PCIe x8 (LP, HL) 1 x OCP Mezzanine x8
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	24 x 2.5" Hot-swap Storage Bays (SATA) 2 x 2.5" Hot-swap SSD Bays (Rear) 1 x M.2 (Up to 2242, SATA & PCIe mode)	8 x 2.5" Hot-swap Storage Bays (SATA/SAS) 1 x M.2 (Up to 2242, SATA & PCIe mode)	24 x Front 3.5" or 2.5" Hot-Swap Storage Bays 12 x Rear 3.5" or 2.5" Hot-Swap Storage Bays 2 x Hot-Swap 2.5" Storage Bays (Rear) 2 x M.2 (Up to 2242, SATA & PCIe mode)
<b>Networking</b>	4 x 1GbE LAN 1 x Management port	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 56 Gb/s InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 56 Gb/s InfiniBand Adapter
<b>Optical Drive</b>	N/A	1 x Slim-type Optical Drive Bay	N/A
<b>Front I/O ports</b>	2 x USB 2.0 ports	2 x USB 2.0 ports 1 x VGA port	2 x USB 2.0 ports
<b>Rear I/O ports</b>	1 x COM port 2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x VGA port 1 x RJ-45 ports 4 x RJ-45 ports 1 x RJ-45 Management port 1 x PS/2 KB/Mouse port	1 x COM port 2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port 1 x PS/2 KB/Mouse port	1 x COM port 2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port 1 x PS/2 KB/Mouse port
<b>Security Options</b>	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 1.2)	Trusted Platform Module (TPM 1.2)
<b>Management Solution</b>	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>	615mm x 444mm x 88mm (2U) 24.21" x 17.48" x 3.46"	686mm x 444mm x 44mm (1U) 27" x 17.48" x 1.73"	615mm x 447mm x 176mm (4U) 24.21" x 17.6" x 6.92"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	15.66 kg	12.65 kg	25.915 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	23.12 kg	19.05 kg	34.95 kg
<b>Power Supply</b> (following different configuration by region)	1+1 Redundant 800W 80 PLUS Platinum Power Supply	1+1 Redundant 800W 80 PLUS Gold Power Supply	1+1 Redundant 800W 80 PLUS Platinum Power Supply



For more information, please visit our website.  
All specs are subject to change without any prior notice.



### RS520-E8-RS12-E V2

### RS520-E8-RS8 V2

### RS500-E8-RS4 V2

<b>Motherboard</b>	Z10PR-D16	Z10PP-D24	Z10PR-D16
<b>Processor</b>	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (145W)	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (145W)	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (145W)
<b>Chipset</b>	Intel® C612	Intel® C612	Intel® C612
<b>Memory</b>	16 x DIMM slots DDR4 up to 2400 RDIMM/LRDIMM Max 1024GB	16 x DIMM slots DDR4 up to 2400 RDIMM/LRDIMM Max 1024GB	16 x DIMM slots DDR4 up to 2400 RDIMM/LRDIMM Max 1024GB
<b>VGA</b>	Aspeed AST2400 32MB	Aspeed AST2400 32MB	Aspeed AST2400 32MB
<b>Graphic</b>	N/A	N/A	N/A
<b>Expansion Slots</b>	Up to 4 slots 3 x PCIe x8 (LP, HL) 1 x OCP Mezzanine x8	Up to 4 slots 3 x PCIe x8 (LP, HL) 1 x OCP Mezzanine x8	Up to 3 slots 2 x PCIe x8 (FH, HL) 1 x OCP Mezzanine x8
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	12 x 3.5" or 2.5" Hot-swap Storage Bays 2 x 2.5" Hot-Swap Storage Bays (Rear) 2 x M.2 (Up to 2242, SATA & PCIe mode)	8 x 3.5" or 2.5" Hot-swap Storage Bays 1 x M.2 (Up to 2242, SATA & PCIe mode)	4 x 3.5" or 2.5" Hot-swap Storage Bays 1 x M.2 (Up to 2242, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 56 Gb/s InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 56 Gb/s InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 56 Gb/s InfiniBand Adapter
<b>Optical Drive</b>	N/A	1 x Slim-type Optical Drive Bay	1 x Slim-type Optical Drive Bay
<b>Front I/O ports</b>	2 x USB 2.0 ports	2 x USB 3.1 Gen1 ports 1 x VGA port	2 x USB 2.0 ports 1 x VGA port
<b>Rear I/O ports</b>	1 x COM port 2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port 1 x PS/2 KB/Mouse port	1 x COM port 2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port 1 x PS/2 KB/Mouse port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port 1 x PS/2 KB/Mouse port
<b>Security Options</b>	Trusted Platform Module (TPM 1.2)	Trusted Platform Module (TPM 1.2)	Trusted Platform Module (TPM 1.2)
<b>Management Solution</b>	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>	615mm x 444mm x 88mm (2U) 24.21" x 17.48" x 3.46"	615mm x 444mm x 88mm (2U) 24.21" x 17.48" x 3.46"	615mm x 444mm x 44mm (1U) 24.21" x 17.48" x 1.73"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	15.05 kg	14.80 kg	10.93 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	22.15 kg	21.53 kg	17.18 kg
<b>Power Supply</b> (following different configuration by region)	1+1 Redundant 770W 80 PLUS Platinum Power Supply	1+1 Redundant 770W 80 PLUS Platinum Power Supply	1+1 Redundant 770W 80 PLUS Platinum Power Supply





### RS500-E8-PS4 V2

### RS400-E8-PS2

### RS400-E8-PS2-F

<b>Motherboard</b>	Z10PR-D16	Z10PR-D16	Z10PR-D16
<b>Processor</b>	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (145W)	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (120W)	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (120W)
<b>Chipset</b>	Intel® C612	Intel® C612	Intel® C612
<b>Memory</b>	16x DIMM slots DDR4 up to 2400 RDIMM/LRDIMM Max 1024GB	16x DIMM slots DDR4 up to 2400 RDIMM/LRDIMM Max 1024GB	16x DIMM slots DDR4 up to 2400 RDIMM/LRDIMM Max 1024GB
<b>VGA</b>	Aspeed AST2400 32MB	Aspeed AST2400 32MB	Aspeed AST2400 32MB
<b>Graphic</b>	N/A	N/A	N/A
<b>Expansion Slots</b>	Up to 3 slots 2 x PCIe x8 (FH, HL) 1 x OCP Mezzanine x8	Up to 3 slots 2 x PCIe x8 (FH, HL) 1 x OCP Mezzanine x8	Up to 3 slots 2 x PCIe x8 (FH, HL) 1 x OCP Mezzanine x8
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1	Support RAID 0, 1
<b>Storage Bays</b>	4 x 3.5" or 2.5" Hot-swap Storage Bays 1 x M.2 (Up to 2242, SATA & PCIe mode)	2 x 2.5" Hot-swap SSD Bays 1 x M.2 (Up to 2242, SATA & PCIe mode)	2 x 2.5" Hot-swap SSD Bays 1 x M.2 (Up to 2242, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 56 Gb/s InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 56 Gb/s InfiniBand Adapter	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 56 Gb/s InfiniBand Adapter
<b>Optical Drive</b>	1 x Slim-type Optical Drive Bay	N/A	N/A
<b>Front I/O ports</b>	2 x USB 2.0 ports 1 x VGA port	N/A	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port 1 x PS/2 KB/Mouse port
<b>Rear I/O ports</b>	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port 1 x PS/2 KB/Mouse port	2 x USB 3.1 Gen1 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port 1 x PS/2 KB/Mouse port	N/A
<b>Security Options</b>	Trusted Platform Module (TPM 1.2)	Trusted Platform Module (TPM 1.2)	Trusted Platform Module (TPM 1.2)
<b>Management Solution</b>	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>	615mm x 444mm x 44mm (1U) 24.21" x 17.48" x 1.73"	383mm x 444mm x 44mm (1U) 15.08" x 17.48" x 1.73"	383mm x 444mm x 44mm (1U) 15.08" x 17.48" x 1.73"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	9.84 kg	6.73 kg	6.73 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	16.10 kg	12.30 kg	12.30 kg
<b>Power Supply</b> (following different configuration by region)	Single 600W 80 PLUS Gold Power Supply Single 650W 80 PLUS Platinum Power Supply	Single 500W 80 PLUS Platinum Power Supply	Single 500W 80 PLUS Platinum Power Supply





### RS300-E9-RS4

### RS300-E9-PS4

### RS200-E9-PS2

<b>Motherboard</b>	P105-C/4L/SYS	P105-C/4L/SYS	P105-C/4L/SYS
<b>Processor</b>	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v5/v6 processors (Up to 80W)	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v5/v6 processors (Up to 80W)	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v5/v6 processors (Up to 80W)
<b>Chipset</b>	Intel® C232	Intel® C232	Intel® C232
<b>Memory</b>	4 x DIMM slots DDR4 up to 2400 ECC/non-ECC UDIMM Max 64GB	4 x DIMM slots DDR4 up to 2400 ECC/non-ECC UDIMM Max 64GB	4 x DIMM slots DDR4 up to 2400 ECC/non-ECC UDIMM Max 64GB
<b>VGA</b>	Aspeed AST2400 32MB	Aspeed AST2400 32MB	Aspeed AST2400 32MB
<b>Graphic</b>	N/A	N/A	N/A
<b>Expansion Slots</b>	Up to 2 slots 2 x PCIe x8 (FH, HL)	Up to 2 slots 2 x PCIe x8 (FH, HL)	Up to 2 slots 2 x PCIe x8 (FH, HL)
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	4 x 3.5" or 2.5" Hot-Swap Storage Bays 2 x 2.5" Internal SSD Bays 2 x M.2 (Up to 2280, SATA & PCIe mode)	4 x 3.5" or 2.5" Hot-Swap Storage Bays 2 x 2.5" Internal SSD Bays 2 x M.2 (Up to 2280, SATA & PCIe mode)	2 x 2.5" Hot-Swap Storage Bays 2 x 2.5" Internal SSD Bays 2 x M.2 (Up to 2280, SATA & PCIe mode)
<b>Networking</b>	4 x 1GbE LAN 1 x Management port	4 x 1GbE LAN 1 x Management port	4 x 1GbE LAN 1 x Management port
<b>Optical Drive</b>	1 x Slim-type Optical Drive Bay	1 x Slim-type Optical Drive Bay	N/A
<b>Front I/O ports</b>	2 x USB 3.1 Gen1 ports 1 x VGA port	2 x USB 3.1 Gen1 ports 1 x VGA port	1 x COM port (Optional)
<b>Rear I/O ports</b>	4 x RJ-45 ports 2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x VGA port 1 x PS/2 keyboard/mouse combo port 1 x RJ-45 management port (Optional)	4 x RJ-45 ports 2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x VGA port 1 x PS/2 keyboard/mouse combo port 1 x RJ-45 management port (Optional)	4 x RJ-45 ports 2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x VGA port 1 x PS/2 keyboard/mouse combo port 1 x RJ-45 management port (Optional)
<b>Security Options</b>	-	-	-
<b>Management Solution</b>	ASUS Control Center Optional ASMB8-iKVM for KVM-over-IP	ASUS Control Center Optional ASMB8-iKVM for KVM-over-IP	ASUS Control Center Optional ASMB8-iKVM for KVM-over-IP
<b>Dimension</b>	615mm x 444mm x 44mm (1U) 24.21" x 17.48" x 1.73"	615mm x 444mm x 44mm (1U) 24.21" x 17.48" x 1.73"	383mm x 444mm x 44mm (1U) 15.08" x 17.48" x 1.73"
<b>Net Weight kg</b> <small>(CPU, DRAM &amp; HDD not included)</small>	10.64 kg	8.98 kg	5.96 kg
<b>Gross Weight kg</b> <small>(CPU, DRAM &amp; HDD not included, Packing include)</small>	16.75 kg	15.09 kg	12.12 kg
<b>Power Supply</b> <small>(following different configuration by region)</small>	1+1 Redundant 450W 80 PLUS Gold Power Supply	Single 400W 80 PLUS Gold Power Supply	Single 250W 80 PLUS Bronze Power Supply





### RS200-E9-PS2-F

### RS100-E9-PI2

<b>Motherboard</b>	P105-C/4L/SYS	P105-M-DC
<b>Processor</b>	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v5/v6 processors (Up to 80W)	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v5/v6 processors (Up to 80W)
<b>Chipset</b>	Intel® C232	Intel® C232
<b>Memory</b>	4 x DIMM slots DDR4 up to 2400 ECC/non-ECC UDIMM Max 64GB	4 x DIMM slots DDR4 up to 2400 ECC/non-ECC UDIMM Max 64GB
<b>VGA</b>	Aspeed AST2400 32MB	Aspeed AST2400 32MB
<b>Graphic</b>	N/A	N/A
<b>Expansion Slots</b>	Up to 2 slots 2 x PCIe x8 (FH, HL)	Up to 1 slot 1 x PCIe x16 (FH, HL)
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	2 x 2.5" Hot-Swap Storage Bays 2 x 2.5" Internal SSD Bays 2 x M.2 (Up to 2280, SATA & PCIe mode)	2 x 3.5" Internal Storage Bays or 1 x 3.5" HDD + 2 x 2.5" SSD)
<b>Networking</b>	4 x 1GbE LAN 1 x Management port	2 x 1GbE LAN 1 x Management port
<b>Optical Drive</b>	N/A	1 x Slim-type Optical Drive Bay
<b>Front I/O ports</b>	4 x RJ-45 ports 2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x VGA port 1 x PS/2 keyboard/mouse combo port	2 x USB 3.1 Gen1 ports 1 x VGA port
<b>Rear I/O ports</b>	1 x COM port (Optional)	1 x COM port 2 x RJ-45 ports 2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x VGA port 1 x PS/2 keyboard/mouse port 1 x RJ-45 management port (Optional)
<b>Security Options</b>	N/A	N/A
<b>Management Solution</b>	ASUS Control Center Optional ASMB8-iKVM for KVM-over-IP	ASUS Control Center Optional ASMB8-iKVM for KVM-over-IP
<b>Dimension</b>	383mm x 444mm x 44mm (1U) 15.08" x 17.48" x 1.73"	380mm x 430mm x 44mm (1U) 14.96" x 16.93" x 1.73"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	5.96 kg	5.3 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	12.12 kg	10.6 kg
<b>Power Supply</b> (following different configuration by region)	Single 250W 80 PLUS Bronze Power Supply	Single 250W 80 PLUS Bronze Power Supply



For more information, please visit our website.  
All specs are subject to change without any prior notice.

# Tower Servers



**Tower/5U, 8+2 Storage Bays, 4 USB3.1**

**TS700-E9-RS8**



**Tower/5U, New Mehlow Platform, 4 Storage Bays**

**TS300-E10-PS4**



**Tower, 3+1 Storage Bays, 2 M.2**

**TS100-E10-PI4**

	TS700-E9-RS8	TS300-E10-PS4	TS100-E10-PI4
<b>Motherboard</b>	WS C621E SAGE	P11C-E 4L	P11C-X/AUDIO
<b>Processor</b>	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 205W)	1 x Socket H4 (LGA 1151) Intel® Xeon® E processors	1 x Socket H4 (LGA 1151) Intel® Xeon® E processors (Up to 95W) Intel® Next Generation Core™ i, Pentium® & Celeron® processors
<b>Chipset</b>	Intel® C621	Intel® C246	Intel® C242
<b>Memory</b>	12 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 1536GB	4 x DIMM slots DDR4 up to 2666 ECC/non-ECC UDIMM Max 64GB	4 x DIMM slots DDR4 up to 2666 ECC/non-ECC UDIMM Max 64GB
<b>VGA</b>	Aspeed AST2500 64MB(optional)	Aspeed AST2500 64MB	Aspeed AST2510 64MB
<b>Graphic</b>	Up to 2 GPU Cards	Up to 1 GPU Card	Up to 1 GPU Card
<b>Expansion Slots</b>	Up to 7 Slots 7 x PCIe x16 (FH, FL)	Up to 5 slots 1 x PCIe x16 (FH, FL) 2 x PCIe x8 (FH, FL) 1 x PCI 1 x MIO for Audio Card	Up to 4 slots 1 x PCIe x16 (FH, FL) 1 x PCIe x8 (FH, FL) 2 x PCI
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008-8i 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108-8i/16PD/1G 8-port SAS 12Gb/s RAID card ASUS PIKE II 3108-8i/16PD/2G 8-port SAS 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008-8i 8-port SAS 12G HBA card
<b>Storage Bays</b>	8 x 3.5" or 2.5" Hot-swap Storage Bays (4 x 3.5" SATA + 4 x 2.5" SAS with PIKE II) 2 x 2.5" Hot-swap Storage Bays (Rear) 1 x M.2 (Up to 22110, SATA & PCIe mode)	4 x 3.5" or 2.5" Hot-swap Storage Bays	3 x 3.5" (or 2 x 2.5" optional cage) Internal Storage bays 1 x 2.5" Internal Storage bay 1 x Optional Internal 5.25" to 3.5" or 2.5" drive cage 2 x M.2 (Up to 22110, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN	4 x 1GbE LAN 1 x Management port	2 x 1GbE LAN
<b>Optical Drive</b>	3 x 5.25" media bays	4 x 5.25" media bays No ODD/DVD-RW;DVD-RW default for North America	2 x 5.25" media bays
<b>Front I/O ports</b>	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x Headphone port 1 x Microphone port	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x Headphone port 1 x Microphone port	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x Headphone port 1 x Microphone port
<b>Rear I/O ports</b>	2 x USB3.1 Gen2 ports (USB Type-C™) 4 x USB3.1 Gen1 ports 2 x USB 2.0 ports (1 supports USB BIOS Flashback) 1 x USB BIOS Flashback button 1 x PS/2 KB port 2 x RJ-45 ports 5+1 Audio Jacks	2 x USB 3.1 Gen2 ports 2 x USB 3.1 Gen1 ports 1 x VGA port 1 x COM port 5 x RJ-45 ports	2 x USB 3.1 Gen2 ports 2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x VGA port 2 x RJ-45 ports 3 x Audio Jacks 1 x PS/2 Keyboard/ Mouse port
<b>Security Options</b>	Trusted Platform Module (TPM 2.0) Chassis Intrusion Switch	N/A	Trusted Platform Module (TPM 2.0) Chassis Intrusion Switch
<b>Management Solution</b>	ASUS Control Center ASMB9-iKVM for KVM-over-IP (Optional)	ASUS Control Center ASMB9-iKVM for KVM-over-IP (Optional)	ASUS Control Center
<b>Dimension</b>	455mm x 217.5mm x 545mm (5U) 17.91" x 8.54" x 21.45"	445mm x 217.5mm x 545mm (5U) 17.91" x 8.54" x 21.45"	423mm x 190mm x 435mm 16.65" x 7.48" x 17.1"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	18.33 kg	15 kg	12.77 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	23.15 kg	18.9 kg	15.74 kg
<b>Power Supply</b> (following different configuration by region)	1+1 Redundant 800W 80 PLUS Platinum Power Supply 1+1 Redundant 1300W 80 PLUS Platinum Power Supply	Single 500W 80 PLUS Gold Power Supply	Single 500W 80 PLUS Gold Power Supply Single 300W 80 PLUS Bronze Power Supply



### TS700-E8-RS8 V2

### TS700-E8-PS4 V2

### TS500-E8-PS4 V2

	TS700-E8-RS8 V2	TS700-E8-PS4 V2	TS500-E8-PS4 V2
<b>Motherboard</b>	Z10PE-D16 WS	Z10PE-D16 WS	Z10PA-D8
<b>Processor</b>	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (145W)	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (160W)	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5-2600 v4/v3 processors (120W)
<b>Chipset</b>	Intel® C612	Intel® C612	Intel® C612
<b>Memory</b>	16 x DIMM slots DDR4 up to 2400 RDIMM/LRDIMM Max 1024GB	16 x DIMM slots DDR4 up to 2400 RDIMM/LRDIMM Max 1024GB	8 x DIMM slots DDR4 up to 2400 RDIMM/LRDIMM Max 512GB
<b>VGA</b>	Aspeed AST2400 32MB	Aspeed AST2400 32MB	Aspeed AST2400 32MB
<b>Graphic</b>	Up to 2 GPU Cards	Up to 2 GPU Cards	Up to 1 GPU Card
<b>Expansion Slots</b>	Up to 6 slots 4 x PCIe x16 (FH, FL) 1 x PCIe x8 (FH, FL) 1 x PCIe x8 (FH, HL)	Up to 6 slots 4 x PCIe x16 (FH, FL) 1 x PCIe x8 (FH, FL) 1 x PCIe x8 (FH, HL)	Up to 6 slots 1 x PCIe x16 (FH, FL) or 2 x PCIe x8 (FH, FL) 1 x PCIe x16 (FH, FL) or 2 x PCIe x8 (FH, FL) 1 x PCIe x8 (FH, HL) 1 x PCIe x4 (FH, FL)
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
<b>Storage Bays</b>	8 x 3.5" or 2.5" Hot-swap Storage Bays 2 x 2.5" Hot-Swap SSD Bays (Rear) 1 x M.2 (Up to 22110, SATA & PCIe mode)	4 x 3.5" or 2.5" Hot-swap Storage Bays 1 x M.2 (Up to 22110, SATA & PCIe mode)	4 x 3.5" or 2.5" Hot-swap Storage Bays 1 x M.2 (Up to 2242, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN 1 x Management port	2 x 1GbE LAN 1 x Management port	2 x 1GbE LAN 1 x Management port
<b>Optical Drive</b>	3 x 5.25" media bays	3 x 5.25" media bays	3 x 5.25" media bays
<b>Front I/O ports</b>	1 x Headphone jack 1 x Microphone jack 2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports	1 x Headphone jack 1 x Microphone jack 2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports	1 x Headphone jack (with optional MIO card) 1 x Microphone jack (with optional MIO card) 2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports
<b>Rear I/O ports</b>	1 x PS/2 KB/MS port 1 x SPDIF port 1 x RJ-45 Management port 2 x RJ-45 port 6 x Audio jacks 4 x USB 3.1 Gen1 ports 4 x USB 2.0 ports 1 x VGA port	1 x PS/2 KB/MS port 1 x SPDIF port 1 x RJ-45 Management port 2 x RJ-45 port 6 x Audio jacks 4 x USB 3.1 Gen1 ports 4 x USB 2.0 ports 1 x VGA port	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x VGA port 2 x RJ-45 ports 1 x RJ-45 Management port 1 x PS/2 KB/Mouse port
<b>Security Options</b>	Trusted Platform Module (TPM 1.2) Chassis Intrusion Switch	Trusted Platform Module (TPM 1.2) Chassis Intrusion Switch	Trusted Platform Module (TPM 1.2) Chassis Intrusion Switch
<b>Management Solution</b>	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension</b>	455mm x 217.5mm x 545mm (5U) 17.91" x 8.54" x 21.45"	455mm x 217.5mm x 545mm (5U) 17.91" x 8.54" x 21.45"	455mm x 217.5mm x 545mm (5U) 17.91" x 8.54" x 21.45"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	17.68 kg	17.20 kg	15.11 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	23.15 kg	24.00 kg	20.30 kg
<b>Power Supply</b> (following different configuration by region)	1+1 Redundant 800W 80 PLUS Platinum Power Supply	Single 1200W 80 PLUS Platinum Power Supply	Single 500W 80 PLUS Bronze Power Supply





**TS300-E9-PS4**

**TS100-E9-PI4**

<b>Motherboard</b>	P10S-E/4L	P10S-X
<b>Processor</b>	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v5/v6 processors (Up to 80W)	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v5/v6 processors (Up to 80W)
<b>Chipset</b>	Intel® C232	Intel® C232
<b>Memory</b>	4 x DIMM slots DDR4 up to 2400 ECC/non-ECC UDIMM Max 64GB	4 x DIMM slots DDR4 up to 2400 ECC/non-ECC UDIMM Max 64GB
<b>VGA</b>	Aspeed AST2400 32MB	Aspeed AST1400 64MB
<b>Graphic</b>	Up to 1 GPU Card	Up to 1 GPU Card
<b>Expansion Slots</b>	Up to 5 slots 1 x PCIe x16* 1 x PCIe x8 1 x PCIe x4 1 x PCI 32 bit/33 MHz 1 x MIO *Switch to x8 when PCIe x8 is occupied	Up to 6 slots 1 x PCIe x16 1 x PCIe x4 4 x PCI 32 bit/33 MHz 1 x MIO
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card	Support RAID 0, 1, 10, 5
<b>Storage Bays</b>	4 x 3.5" Hot-swap Storage Bays Optional: additional 4 x 3.5" Storage Bays	3 x 3.5" Storage Internal Bays 1 x 2.5" Storage Internal Bay
<b>Networking</b>	4 x 1GbE LAN 1 x Management port	2 x 1GbE LAN
<b>Optical Drive</b>	3 x 5.25" media bays	2 x 5.25" media bays
<b>Front I/O ports</b>	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x Headphone port (with optional MIO card) 1 x Microphone in port (with optional MIO card)	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x Microphone port (with optional MIO card) 1 x Headphone port (with optional MIO card)
<b>Rear I/O ports</b>	4 x RJ-45 ports 2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 2 x internal USB 3.1 Gen1 connector (Type A USB socket) 1 x VGA port 1 x PS/2 keyboard/mouse port 1 x RJ-45 management port (Optional)	1 x COM Port 2 x RJ-45 ports 2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x VGA port 1 x PS/2 keyboard/mouse port
<b>Security Options</b>	N/A	N/A
<b>Management Solution</b>	ASUS Control Center Optional ASMB8-iKVM for KVM-over-IP	ASUS Control Center
<b>Dimension</b>	445mm x 217.5mm x 545mm (5U) 17.91" x 8.54" x 21.45"	423mm x 190mm x 435mm 16.65" x 7.48" x 17.13"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	15.0kg	10.32kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	18.9kg	14.95kg
<b>Power Supply</b> (following different configuration by region)	Single 500W 80 PLUS Bronze Power Supply	Single 300W 80 PLUS Bronze Power Supply Single 500W 80PLUS Bronze Power Supply



# Workstations



**Tower, 4 GPU, Dual Titanium Power**

**E900 G4**



**Tower, BMC, 7.1 HD Audio, U.2 & M.2, 3+1 Storage Bays**

**ESC700 G4**



**Tower, HDMI/Displayport/DVI-D/VGA, 7.1 HD Audio**

**E500 G5**

	<b>E900 G4</b>	<b>ESC700 G4</b>	<b>E500 G5</b>
<b>Motherboard</b>	WS C621 SAGE	WS C422 PRO/SE	WS C246 PRO
<b>Processor</b>	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 205W)	1 x Socket R4 (LGA2066) Intel® Xeon W Series Processors	1 x Socket H4 (LGA1151) Intel® Xeon® E processor Intel® 8th Generation Core™ i7/i5/i3, Pentium® and Celeron® Processors
<b>Chipset</b>	Intel® C621	Intel® C422	Intel® C246
<b>Memory</b>	12 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 1536GB	8 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM Max 512GB	4 x DIMM slots DDR4 up to 2666 ECC/non-ECC UDIMM Max 64GB
<b>VGA</b>	Aspeed AST2500 64MB (optional)	N/A	Integrated Graphics
<b>Graphic</b>	Up to 4 GPU Cards	Up to 2 GPU Cards	Up to 1 GPU Card
<b>Expansion Slots</b>	Up to 7 slots 4 x PCIe x16 (FH, FL)	Up to 5 slots 3 x PCIe x16 (FH, FL) or 2 x PCIe x16 (FH,FL) + 2 x PCIe x 8 1 x PCIe x4 (FH, FL)	Up to 6 slots 1 x PCIe x16 (FH, FL) or 2 x PCIe x8 (FH, FL) + 2 x PCIe x4 (FH, FL) 2 x PCIe x1
<b>Storage Controller</b>	Support RAID 0, 1, 10, 5 Optional kits for SAS: ASUS PIKE II 3008 8-port SAS 12G/s HBA card ASUS PIKE II 3108 8-port SAS HW 12G/s RAID card	Support RAID 0, 1, 10, 5	Support RAID 0, 1, 10, 5
<b>Storage Bays</b>	8 x 3.5" or 2.5" Hot-swap Storage Bays (4 x 3.5" SATA + 4 x 2.5" SAS with PIKE II) 1 x M.2 (Up to 22110, SATA & PCIe mode) 4 x U.2	3 x Internal 3.5" Storage Bays 1 x Internal 2.5" SSD Bays 1 x M.2 (Up to 22110, PCIe mode) 1 x M.2 (Up to 2280, SATA & PCIe mode) 1 x U.2	3 x Internal 3.5" Storage Bays 1 x Internal 2.5" SSD Bays 1 x M.2 (Up to 2280, SATA & PCIe mode) 1 x M.2 (Up to 22110, PCIe mode)
<b>Networking</b>	2 x 1GbE LAN	2 x 1GbE LAN	2 x 1GbE LAN
<b>Audio</b>	Realtek® ALC S1220A 7.1 HD Audio	Realtek® ALC S1220A 7.1 HD Audio	Realtek® ALC887 7.1 HD Audio
<b>Optical Drive</b>	2 x 5.25" media bays	2 x 5.25" media bays	2 x 5.25" media bays
<b>Front I/O ports</b>	4 x USB 3.1 Gen1 ports 1 x Headphone port 1 x Microphone port	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports (or optional card reader support) 1 x Headphone port 1 x Microphone port	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x Headphone port 1 x Microphone port
<b>Rear I/O ports</b>	2 x USB3.1 Gen2 ports (1 USB TypeC™) 4 x USB3.1 Gen1 ports 2 x USB 2.0 ports (1 for USB BIOS Flashback) 1 x PS/2 and keyboard Mouse port 2 x RJ-45 LAN ports 5+1 Audio Jacks	1 x USB BIOS Flashback Button 2 x USB 3.1 Gen2 ports (1 USB TypeC™) 4 x USB 3.1 Gen1 ports 4 x USB 2.0 ports (1 for USB BIOS Flashback) 2 x RJ-45 ports 5+1 Audio jacks	2 x USB 3.1 Gen2 ports (1 USB TypeC™) 4 x USB 3.1 Gen1 ports 1 x HDMI 1 x Displayport 1 x DVI-D 1 x VGA 2 x RJ-45 ports 5+1 Audio jacks
<b>Security Options</b>	Trusted Platform Module (TPM 2.0) Chassis Intrusion Switch	Trusted Platform Module (TPM 2.0) Chassis Intrusion Switch	Trusted Platform Module (TPM 2.0) Chassis Intrusion Switch
<b>Management Solution</b>	ASUS Control Center Optional ASMB9-IKVM for KVM-over-IP	ASUS Control Center On-Board ASMB9-IKVM for KVM-over-IP (Both Share LAN)	ASUS Control Center
<b>Dimension</b>	532mm x 243mm x 582mm 21.0" x 9.5" x 22.9"	423mm x 190mm x 435mm 16.7" x 7.48" x 17.1"	423mm x 190mm x 435mm 16.7" x 7.48" x 17.1"
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	18.33 kg	14 kg	12.65 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	23.15 kg	16.2 kg	14.51 kg
<b>Power Supply</b> (following different configuration by region)	1+1 Redundant 2000W 80PLUS Titanium Power Supply	Single 500W 80PLUS Bronze/Gold Power Supply, Single 700W 80PLUS Gold Power Supply, Single 1200W 80PLUS Platinum Power Supply,	Single 300W 80PLUS Bronze Power Supply Single 500W 80PLUS Gold Power Supply Single 700W 80PLUS Gold Power Supply



For more information, please visit our website.  
All specs are subject to change without any prior notice.



Mehlow platform Workstation,  
Small Form Factor



	E500 G5 SFF	ESC500 G4	ESC500 G4 SFF
<b>Motherboard</b>	WS C246M PRO	P10S WS	P10S-M WS
<b>Processor</b>	1 x Socket H4 (LGA1151) Intel® Xeon® E processor Intel® Core™ i7/i5/i3 processors Intel® Pentium™ processors Intel® Celeron™ processors	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v6/v5 processors Intel® Core™ i7/i5/i3 processors Intel® Pentium™ processors Intel® Celeron™ processors	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v6/v5 processors Intel® Core™ i7/i5/i3 processors Intel® Pentium™ processors Intel® Celeron™ processors
<b>Chipset</b>	Intel® C246	Intel® C236	Intel® C236
<b>Memory</b>	4 x DIMM slots DDR4 up to 2666 ECC/non-ECC UDIMM Max 64GB	4 x DIMM slots DDR4 up to 2400 ECC/non-ECC UDIMM Max 64GB	4 x DIMM slots DDR4 up to 2400 ECC/non-ECC UDIMM Max 64GB
<b>VGA</b>	Integrated Graphics	Integrated Graphics	Integrated Graphics
<b>Graphic</b>	Up to 1 GPU Card	Up to 1 GPU Card	Up to 1 GPU Card
<b>Expansion Slots</b>	Up to 3 Slot 1 x PCIe x16 (LP, HL) 1 x PCIe x8 (LP, HL) 1 x PCIe x1	Up to 4 slots 1 x PCIe x16 (FH, FL)* 1 x PCIe x8 (FH, FL) 2 x PCIe x4 (FH, FL) *Switch to x8 link if x8 slot is occupied	Up to 4 slots 1 x PCIe x16 (LP, FL) 1 x PCIe x4 (LP, FL) 1 x PCIe x1 (LP, FL)
<b>Storage Controller</b>	Support RAID 0, 1	Support RAID 0, 1, 10, 5	Support RAID 0, 1, 10, 5
<b>Storage Bays</b>	2 x Internal 3.5" Storage Bays (Or switch to Up to 2 x 2.5" SSD by cage) 1 x M.2 (Up to 2280, SATA & PCIe mode)	3 x Internal 3.5" HDD Bays 1 x Internal 2.5" SSD Bays 1 x M.2 (Up to 22110, SATA & PCIe mode)	2 x Internal 3.5" HDD Bays (Or switch to Max 2 x 2.5" SSD by cage) 1 x M.2 (Up to 22110, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN	2 x 1GbE LAN	2 x 1GbE LAN
<b>Audio</b>	Realtek® ALC887 7.1 HD Audio	Realtek® ALC 1150 7.1 HD Audio	Realtek® ALC 1150 7.1 HD Audio
<b>Optical Drive</b>	1 x 5.25" media bays	2 x 5.25" media bays	1 x 5.25" media bays
<b>Front I/O ports</b>	2 x USB 3.1 Gen1 ports 2 x USB 2.0 1 x Headphone port 1 x Microphone port	2 x USB 3.1 Gen1 2 x USB 2.0 1 x Headphone port 1 x Microphone port	2 x USB 3.1 Gen1 2 x USB 2.0 1 x Headphone port 1 x Microphone port
<b>Rear I/O ports</b>	2 x USB 3.1 Gen2 ports 2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x HDMI 1 x Displayport 1 x VGA 2 x RJ-45 ports 5+1 Audio Jacks	2 x USB 3.1 Gen2 ports (1 USB Type C™) 4 x USB 3.1 Gen1 ports 1 x Optical S/PDIF Out 1 x HDMI port 1 x DisplayPort 2 x RJ-45 ports 1 x DVI-D 1 x VGA 5+1 Audio Jacks	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x Optical S/PDIF Out 1 x HDMI 1 x DisplayPort 2 x RJ-45 ports 1 x DVI-D 5+1 Audio Jacks
<b>Security Options</b>	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)	Trusted Platform Module (TPM 2.0)
<b>Management Solution</b>	ASUS Control Center	ASUS Control Center	ASUS Control Center
<b>Dimension</b>	410mm x 96mm x 330 mm 16.14" x 3.78" x 13"	423mm x 190mm x 435mm	410mm x 96mm x 330 mm
<b>Net Weight kg</b> (CPU, DRAM & HDD not included)	6 kg	12.653 kg	6 kg
<b>Gross Weight kg</b> (CPU, DRAM & HDD not included, Packing include)	7.5 kg	14.513 kg	7.5 kg
<b>Power Supply</b> (following different configuration by region)	Single 300W 80 PLUS Bronze Power Supply	Single 300W 80 PLUS Bronze Power Supply Single 500W 80 PLUS Bronze Power Supply Single 700W 80 PLUS Gold Power Supply	Single 250W 80 PLUS Power Supply





### ESC510 G4 SFF

<b>Motherboard</b>	P10S-M WS
<b>Processor</b>	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v6/v5 processors Intel® Core™ i7/i5/i3 processors Intel® Pentium™ processors Intel® Celeron™ processors
<b>Chipset</b>	Intel® C236
<b>Memory</b>	4 x DIMM slots DDR4 up to 2400 ECC/non-ECC UDIMM Max 64GB
<b>VGA</b>	Integrated Graphics
<b>Graphic</b>	Up to 1 GPU Card
<b>Expansion Slots</b>	Up to 4 slots 1 x PCIe x16 (LP, FL) 1 x PCIe x4 (LP, FL) 1 x PCIe x1 (LP, FL)
<b>Storage Controller</b>	Support RAID 0, 1
<b>Storage Bays</b>	2 x Internal 3.5" HDD Bays (Or switch to Max 2 x 2.5" SSD by cage) 1 x M.2 (Up to 22110, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN
<b>Audio</b>	Realtek® ALC 1150 7.1 HD Audio
<b>Optical Drive</b>	1 x 5.25" media bays
<b>Front I/O ports</b>	2 x USB 3.1 Gen1 2 x USB 2.0 1 x Headphone port 1 x Microphone port
<b>Rear I/O ports</b>	2 x USB 3.1 Gen1 ports 2 x USB 2.0 ports 1 x Optical S/PDIF Out 1 x HDMI 1 x DisplayPort 2 x RJ-45 ports 1 x DVI-D 5+1 Audio Jacks
<b>Security Options</b>	Trusted Platform Module (TPM 2.0)
<b>Management Solution</b>	ASUS Control Center
<b>Dimension</b>	410mm x 96mm x 330 mm
<b>Net Weight kg</b> <small>(CPU, DRAM &amp; HDD not included)</small>	6 kg
<b>Gross Weight kg</b> <small>(CPU, DRAM &amp; HDD not included, Packing include)</small>	7.5 kg
<b>Power Supply</b> <small>(following different configuration by region)</small>	Single 300W 80 PLUS Power Supply



For more information, please visit our website.  
All specs are subject to change without any prior notice.

# Server Motherboards



## Z11PR-D16

## Z11PA-D8

## Z11PA-U12/10G-2S

<b>Processor</b>	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 150W)	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 165W)	1 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 165W)
<b>Chipset</b>	Intel® C621	Intel® C621	Intel® C622
<b>Memory</b>	16 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/LR-DIMM 3DS Max 2048GB	8 x DIMM slots DDR4 up to 2666 RDIMM/LRDIMM/NVDIMM/3DS DIMM Max 1024GB	12 x DIMM slots DDR4 up to 2666 RDIMM/LRDIMM/NVDIMM/3DS DIMM Max 1536GB
<b>VGA</b>	Aspeed AST2500 64MB	Aspeed AST2500 64MB	Aspeed AST2500 64MB
<b>Expansion Slots</b>	Up to 7 slots 2 x PCIe 3.0 x16 4 x PCIe 3.0 x8 1 x OCP 2.0 Mezzanine x16	Up to 3 slots 2 x PCIe 3.0 x16 1 x PCIe 3.0 x8	Up to 4 slots 1 x PCIe 3.0 x16 1 x PCIe 3.0 x16* 1 x PCIe 3.0 x8 1 x PCIe 3.0 x4 *Switch to x8 link if x8 slot is occupied
<b>Storage</b>	11 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 2 x M.2 (Up to type 2280, SATA & PCIe mode) Optional kits for Intel® VROC Software RAID support Optional kits for SAS upgrade	12 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 4 x SATA 6Gb/s ports 2 x M.2 (Up to type 22110, SATA & PCIe mode) Optional kits for Intel® VROC Software RAID support Optional kits for SAS upgrade	13 SATA 6Gb/s ports (RAID 0, 1, 10, 5) 1 x M.2 (Up to type 2280, SATA & PCIe mode) Optional kits for Intel® VROC Software RAID support Optional kits for SAS upgrade
<b>Networking</b>	2 x 1GbE LAN 1 x Management port Optional OCP Adapter: Up to 100Gb/s Ethernet / InfiniBand Adapter	4 x 1GbE LAN 1 x Management port	2 x 1GbE LAN 2 x 10GbE LAN 1 x Management port
<b>Audio</b>	N/A	N/A	N/A
<b>Other Onboard I/O Devices</b>	2 x USB 3.1 Gen1 ports at rear 1 x USB 3.1 Gen1 header at mid-board 2 x USB 2.0 headers at mid-board 1 x VGA port 1 x TPM header 1 x COM port header 1 x Micro SD card slot	4 x USB 3.1 Gen1 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x VGA port 1 x PS/2 KB/Mouse 1 x TPM header 1 x COM port header	2 x USB 3.1 Gen1 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x VGA port 1 x PS/2 KB/Mouse 1 x TPM header 1 x COM port header
<b>Management Solution</b>	ASUS Control Center ASMB9-iKVM for KVM-over-IP	ASUS Control Center Optional ASMB9-iKVM for KVM-over-IP	ASUS Control Center Optional ASMB9-iKVM for KVM-over-IP
<b>Form Factor</b>	SSI EEB, 12" x 13"	CEB, 12" x 10.5"	ATX, 12" x 9.6" (EEB Mounting Hole Location)





### Z11PA-U12

### P11C-C/4L

### P11C-X

#### Processor

1 x Socket P (LGA 3647)  
Intel® Xeon® Scalable processors (Up to 165W)

1 x Socket H4 (LGA1151)  
Intel® Xeon® E processors (Up to 95W)  
Intel® Core™ i3 processors  
Intel® Pentium™ processors  
Intel® Celeron™ processors

1 x Socket H4 (LGA1151)  
Intel® Xeon® E processors (Up to 95W)  
Intel® Core™ i3 processors  
Intel® Pentium™ processors  
Intel® Celeron™ processors

#### Chipset

Intel® C621

Intel® C242

Intel® C242

#### Memory

12 x DIMM slots  
DDR4 up to 2666 RDIMM/LRDIMM/NVDIMM/3DS DIMM  
Max 1536GB

4 x DIMM slots  
DDR4 up to 2666 ECC/non-ECC UDIMM  
Max 64GB

4 x DIMM slots  
DDR4 up to 2666 ECC/non-ECC UDIMM  
Max 64GB

#### VGA

Aspeed AST2500 64MB

Aspeed AST2500 32MB

Aspeed AST2510 64MB

#### Expansion Slots

Up to 4 slots  
1 x PCIe 3.0 x16  
1 x PCIe 3.0 x16\*  
1 x PCIe 3.0 x8  
1 x PCIe 3.0 x4  
\*Switch to x8 link if x8 slot is occupied

Up to 4 slots  
1 x PCIe 3.0 x16\*  
1 x PCIe 3.0 x8  
1 x MIO  
1 x PCI 32bit/33 MHz  
\*Switch to x8 link if x8 slot is occupied

Up to 4 slots  
1 x PCIe 3.0 x16  
1 x PCIe 3.0 x4  
2 x PCI 32bit/33 MHz

#### Storage

13 SATA 6Gb/s ports (RAID 0, 1, 10, 5)  
1 x M.2 (Up to type 2280, SATA & PCIe mode)  
Optional kits for Intel® VROC Software RAID support  
Optional kits for SAS upgrade

6 x SATA 6Gb/s ports (RAID 0, 1, 10, 5)  
2 x M.2 (Up to type 22110, SATA & PCIe mode)  
Optional kits for SAS upgrade

6 x SATA 6Gb/s ports (RAID 0, 1, 10, 5)  
2 x M.2 (Up to type 22110, SATA mode)  
Optional kits for SAS upgrade

#### Networking

2 x 1GbE LAN  
1 x Management port

4 x 1GbE LAN  
1 x Management port

2 x 1GbE LAN

#### Audio

N/A

N/A

N/A

#### Other Onboard I/O Devices

2 x USB 3.1 Gen1 ports at rear  
1 x USB 3.1 Gen1 header at mid-board  
1 x USB 2.0 header at mid-board  
1 x VGA port  
1 x PS/2 KB/Mouse  
1 x TPM header  
1 x COM port header

2 x USB 3.1 Gen2 ports at rear  
2 x USB 3.1 Gen1 ports at rear  
1 x USB 3.1 Gen1 header at mid-board  
1 x USB 2.0 header at mid-board  
1 x USB 2.0 connector (Type A USB socket)  
1 x VGA header at mid-board  
1 x VGA port  
1 x TPM header  
2 x COM port headers

2 x USB 3.1 Gen2 ports at rear  
2 x USB 3.1 Gen1 ports at rear  
2 x USB 2.0 port at rear  
1 x USB 3.1 Gen1 header at mid-board  
1 x USB 2.0 header at mid-board  
1 x VGA port  
1 x COM port header  
1 x PS/2 KB/Mouse  
1 x TPM header

#### Management Solution

ASUS Control Center  
Optional ASMB9-iKVM for KVM-over-IP

ASUS Control Center  
Optional ASMB9-iKVM for KVM-over-IP

ASUS Control Center

#### Form Factor

ATX, 12" x 9.6" (EEB Mounting Hole Location)

ATX, 12" x 9.6"

ATX, 12" x 9.6"





	P11C-X/Audio	P11C-M/4L	P11C-I
<b>Processor</b>	1 x Socket H4 (LGA1151) Intel® Xeon® E processors (Up to 95W) Intel® Core™ i3 processors Intel® Pentium™ processors Intel® Celeron™ processors	1 x Socket H4 (LGA1151) Intel® Xeon® E processors (Up to 95W) Intel® Core™ i3 processors Intel® Pentium™ processors Intel® Celeron™ processors	1 x Socket H4 (LGA1151) Intel® Xeon® E processors (Up to 95W) Intel® Core™ i3 processors Intel® Pentium™ processors Intel® Celeron™ processors
<b>Chipset</b>	Intel® C242	Intel® C242	Intel® C242
<b>Memory</b>	4 x DIMM slots DDR4 up to 2666 ECC/non-ECC UDIMM Max 64GB	4 x DIMM slots DDR4 up to 2666 ECC/non-ECC UDIMM Max 64GB	2 x DIMM slots DDR4 up to 2666 ECC/non-ECC UDIMM Max 32GB
<b>VGA</b>	Aspeed AST2510 64MB	Aspeed AST2500 32MB	Aspeed AST2500 32MB
<b>Expansion Slots</b>	Up to 4 slots 1 x PCIe 3.0 x16 1 x PCIe 3.0 x4 2 x PCI 32bit/33 MHz	Up to 2 slots 1 x PCIe 3.0 x16* 1 x PCIe 3.0 x8 *Switch to x8 link if x8 link is occupied	Up to 1 slot 1 x PCIe 3.0 x16
<b>Storage</b>	6 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 2 x M.2 (Up to type 22110, SATA mode) Optional kits for SAS upgrade	6 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 2 x M.2 (Up to type 22110, SATA & PCIe mode) Optional kits for SAS upgrade	6 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 1 x M.2 (Up to type 2242, SATA & PCIe mode) Optional kits for SAS upgrade
<b>Networking</b>	2 x 1GbE LAN	4 x 1GbE LAN 1 x Management port	2 x 1GbE LAN 1 x Management port
<b>Audio</b>	Realtek ALC887 7.1 HD Audio	N/A	N/A
<b>Other Onboard I/O Devices</b>	2 x USB 3.1 Gen2 ports at rear 2 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x VGA port 1 x COM port header 1 x PS/2 KB/Mouse 1 x TPM header	2 x USB 3.1 Gen2 ports at rear 2 x USB 3.1 Gen1 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x USB 2.0 connector (Type A USB socket) 1 x VGA header 1 x VGA port 1 x COM port header 1 x TPM header	2 x USB 3.1 Gen2 ports at rear 2 x USB 3.1 Gen1 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x USB 2.0 connector (Type A USB socket) 1 x VGA port 1 x COM port header 1 x TPM header
<b>Management Solution</b>	ASUS Control Center	ASUS Control Center Optional ASMB9-iKVM for KVM-over-IP	ASUS Control Center Optional ASMB9-iKVM for KVM-over-IP
<b>Form Factor</b>	ATX, 12" x 9.6"	Micro ATX, 9.6" x 9.6"	Mini-ITX, 6.7" x 6.7"





**Z10PH-D16**



**Z10PE-D16/4L**



**Z10PE-D16**

<b>Processor</b>	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5 Product family	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5 Product family	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5 Product family
<b>Chipset</b>	Intel® C612	Intel® C612	Intel® C612
<b>Memory</b>	16 x DIMM slots DDR4 up to 2400 RDIMM/LR-DIMM/LR-DIMM Max1024GB	16 x DIMM slots DDR4 up to 2400 RDIMM/LR-DIMM/LR-DIMM Max1024GB	16 x DIMM slots DDR4 up to 2400 RDIMM/LR-DIMM/LR-DIMM Max1024GB
<b>VGA</b>	Aspeed AST2400 32MB	Aspeed AST2400 32MB	Aspeed AST2400 32MB
<b>Expansion Slots</b>	Up to 1 slot 1 x PCIe 3.0 x 24	Up to 5 slots 3 x PCIe 3.0 x 16 1 x PCIe 3.0 x 8 1 x PCIe 2.0 x 4	Up to 5 slots 3 x PCIe 3.0 x 16 1 x PCIe 3.0 x 8 1 x PCIe 2.0 x 4
<b>Storage</b>	6 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) or 5 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) + 1 x M.2 (Up to type 2242, SATA & PCIe mode) Optional kits for SAS upgrade	10 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) or 9 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) + 1 x M.2 (Up to type 2242, SATA & PCIe mode) Optional kits for SAS upgrade	10 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) or 9 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) + 1 x M.2 (Up to type 2242, SATA & PCIe mode) Optional kits for SAS upgrade
<b>Networking</b>	2 x 1GbE LAN 1 x Management port	2 x 1GbE LAN 1 x Management port	2 x 1GbE LAN 1 x Management port
<b>Audio</b>	N/A	N/A	N/A
<b>Other Onboard I/O Devices</b>	2 x USB 3.1 Gen1 ports at rear 1 x USB 2.0 header at mid-board 1 x USB 2.0 connector at mid-board 1 x TPM header 1 x VGA port 1 x COM port header	2 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x TPM header 1 x VGA port 1 x COM port header	2 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x TPM header 1 x VGA port 1 x COM port header
<b>Management Solution</b>	ASUS Control Center ASMB8-iKVM for KVM-over-IP	ASUS Control Center ASMB8-iKVM for KVM-over-IP	ASUS Control Center ASMB8-iKVM for KVM-over-IP
<b>Form Factor</b>	Proprietary, 18.04" x 6.86"	SSI EEB, 12" x 13"	SSI EEB, 12" x 13"





**Z10PR-D16**



**Z10PA-D8C**



**Z10PA-D8**

	Z10PR-D16	Z10PA-D8C	Z10PA-D8
<b>Processor</b>	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5 Product family	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5 Product family	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5 Product family
<b>Chipset</b>	Intel® C612	Intel® C612	Intel® C612
<b>Memory</b>	16 x DIMM slots DDR4 up to 2400 RDIMM/LR-DIMM/LR-DIMM Max1024GB	8 x DIMM slots DDR4 up to 2400 RDIMM/LR-DIMM/LR-DIMM Max512GB	8 x DIMM slots DDR4 up to 2400 RDIMM/LR-DIMM/LR-DIMM Max512GB
<b>VGA</b>	Aspeed AST2400 32MB	Aspeed AST1400 64MB	Aspeed AST2400 32MB
<b>Expansion Slots</b>	Up to 3 slots 1 x PCIe 3.0 x16 2 x PCIe 3.0 x8	Up to 6 slots 2 x PCIe 3.0 x16 3 x PCIe 3.0 x8 1 x PCIe 2.0 x4	Up to 6 slots 2 x PCIe 3.0 x16 3 x PCIe 3.0 x8 1 x PCIe 2.0 x4
<b>Storage</b>	9 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) or 8 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) + 1x M.2 (Up to type 2242, SATA & PCIe mode) Optional kits for SAS upgrade	10 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) or 9 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) + 1x M.2 (Up to type 2242, SATA & PCIe mode) Optional kits for SAS upgrade	10 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) or 9 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) + 1x M.2 (Up to type 2242, SATA & PCIe mode) Optional kits for SAS upgrade
<b>Networking</b>	2 x 1GbE LAN 1 x Management port	2 x 1GbE LAN	2 x 1GbE LAN 1 x Management port
<b>Audio</b>	N/A	N/A	N/A
<b>Other Onboard I/O Devices</b>	2 x USB 3.1 Gen1 ports at rear 1 x USB 2.0 ports at mid-board 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x TPM header 1 x VGA port 1 x COM port header	2 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x TPM header 1 x VGA port 1 x COM port header	2 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x TPM header 1 x VGA port 1 x COM port header
<b>Management Solution</b>	ASUS Control Center ASMB8-iKVM for KVM-over-IP	ASUS Control Center	ASUS Control Center ASMB8-iKVM for KVM-over-IP
<b>Form Factor</b>	SSI EEB, 12" x 13"	ATX, 12" x 10"	ATX, 12" x 10"





**Z10PA-U8**



**P10S-E/4L**



**P10S-C/4L**

	Z10PA-U8	P10S-E/4L	P10S-C/4L
<b>Processor</b>	2 x Socket R3 (LGA 2011-3) Intel® Xeon® E5 Product family	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v6 / v5 Processors Intel® Core™ i3 processors Intel® Pentium™ processors Intel® Celeron™ processors	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v6 / v5 Processors Intel® Core™ i3 processors Intel® Pentium™ processors Intel® Celeron™ processors
<b>Chipset</b>	Intel® C612	Intel® C236	Intel® C232
<b>Memory</b>	8 x DIMM slots DDR4 up to 2400 RDIMM/LR-DIMM/LR-DIMM Max 512GB	4 x DIMM slots DDR4 up to 2400/2133 ECC/non-ECC UDIMM Max 64GB	4 x DIMM slots DDR4 2400 ECC/non-ECC UDIMM Max 64GB
<b>VGA</b>	Aspeed AST2400 32MB	Aspeed AST 2400 32MB	Aspeed AST 2400 32MB
<b>Expansion Slots</b>	Up to 6 slots 2 x PCIe 3.0 x16 3 x PCIe 3.0 x8 1 x PCI 32bit/33MHz	Up to 5 slots 1 x PCIe 3.0 x16* 1 x PCIe 3.0 x8 1 x PCIe 3.0 x4 1 x PCI 32bit/33 MHz 1 x MIO *Switch to x8 link if x8 slot is occupied	Up to 3 slots 1 x PCIe 3.0 x16* 1 x PCIe 3.0 x8 1 x PCI 32bit/33 MHz 1 x MIO *Switch to x8 link if x8 slot is occupied
<b>Storage</b>	10 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) or 9 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) + 1x M.2 (Up to type 2242, SATA & PCIe mode) Optional kits for SAS upgrade	8 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) or 6 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) + 2 x M.2 (Up to 2242, SATA & PCIe mode)	6 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) or 4 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) + 2 x M.2 (Up to 2242, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN 1 x Management port	4 x 1GbE LAN 1 x Management LAN	4 x 1GbE LAN 1 x Management LAN
<b>Audio</b>	N/A	Support MIO Card (Optional)	Support MIO Card (Optional)
<b>Other Onboard I/O Devices</b>	2 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x TPM header 1 x VGA port 1 x COM port header	2 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 1 x USB 3.1 Gen1 header at mid-board 2 x USB 2.0 header at mid-board 2 x USB 3.0 connector at mid-board (Type A USB socket) 1 x VGA port / header 2 x COM port header 1 x TPM connector	2 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 1 x USB 3.1 header at mid-board 1 x USB 2.0 header at mid-board 2 x USB 3.0 connectors at mid-board (Type A USB socket) 2 x COM port header 1 x VGA port / header 1 x TPM header
<b>Management Solution</b>	ASUS Control Center ASMB8-iKVM for KVM-over-IP	ASUS Control Center Optional ASMB8-iKVM for KVM-over-IP	ASUS Control Center Optional ASMB8-iKVM for KVM-over-IP
<b>Form Factor</b>	ATX, 12" x 9.6" (EEB Mounting Hole Location)	ATX, 12" x 9.6"	ATX, 12" x 9.6"





	P10S-V/4L	P10S-X	P10S-M-DC
<b>Processor</b>	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v6 / v5 processors Intel® Core™ i3 processors Intel® Pentium™ processors Intel® Celeron™ processors	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v6 / v5 processors Intel® Core™ i3 processors Intel® Pentium™ processors Intel® Celeron™ processors	1 x Socket H4 (LGA1151) Intel® Xeon® E3-1200 v6 / v5 processors Intel® Core™ i3 processors Intel® Pentium™ processors Intel® Celeron™ processors
<b>Chipset</b>	Intel® C236	Intel® C232	Intel® C232
<b>Memory</b>	4 x DIMM slots DDR4 up to 2400/2133 ECC/non-ECC UDIMM Max 64GB	4 x DIMM slots DDR4 2400 ECC/non-ECC UDIMM Max 64GB	4 x DIMM slots DDR4 2400 ECC/non-ECC UDIMM Max 64GB
<b>VGA</b>	Aspeed AST 1400 64MB	Aspeed AST 1400 64MB	Aspeed AST 2400 32MB
<b>Expansion Slots</b>	Up to 7 slots 1 x PCIe 3.0 x16 1 x PCIe 3.0 x4 1 x MIO 4 x PCI 32bit/33 MHz	Up to 7 slots 1 x PCIe 3.0 x16 1 x PCIe 3.0 x4 1 x MIO 4x PCI 32bit/33 MHz	Up to 2 slots 1 x PCIe 3.0 x16 1 x PCIe 3.0 x4
<b>Storage</b>	8 x SATA 6Gb/s ports (RAID 0, 1, 10, 5)	6 x SATA 6Gb/s ports	6 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) or 4 x SATA 6 Gb/s + 2 x M.2 connector
<b>Networking</b>	4 x 1GbE LAN	2 x 1GbE LAN	2 x 1GbE LAN 1 x Management LAN
<b>Audio</b>	Support MIO Card (Optional)	N/A	N/A
<b>Other Onboard I/O Devices</b>	2 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x USB 3.1 Gen1 connector (Type A USB Socket) 1 x VGA port / header 1 x COM port 1 x TPM connector	2 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x USB 3.1 Gen1 connector at mid-board 1 x COM port 1 x VGA port/header 1 x TPM header	2 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x USB 3.1 Gen1 connector at mid-board (Type A USB Socket) 1 x COM port 1 x COM port header 1 x VGA port/header 1 x TPM header
<b>Management Solution</b>	ASUS Control Center	ASUS Control Center	ASUS Control Center Optional ASMB8-iKVM for KVM-over-IP
<b>Form Factor</b>	ATX, 12" x 9.6"	ATX, 12" x 9.6"	Micro ATX, 9.6" x 9.6"





**P10S-M**

**P10S-I**

**Processor**

1 x Socket H4 (LGA1151)  
 Intel® Xeon® E3-1200 v6 / v5 processors  
 Intel® Core™ i3 processors  
 Intel® Pentium™ processors  
 Intel® Celeron™ processors

1 x Socket H4 (LGA1151)  
 Intel® Xeon® E3-1200 v6 / v5 processors  
 Intel® Core™ i3 processors  
 Intel® Pentium™ processors  
 Intel® Celeron™ processors

<b>Chipset</b>	Intel® C232	Intel® C232
----------------	-------------	-------------

<b>Memory</b>	4 x DIMM slots DDR4 2400 ECC/non-ECC UDIMM Max 64GB	2 x DIMM slots DDR4 up to 2400 ECC/non-ECC UDIMM Max 32GB
---------------	---	---

<b>VGA</b>	Aspeed AST 2400 32MB	Aspeed AST 2400 32MB
------------	----------------------	----------------------

<b>Expansion Slots</b>	Up to 4 slots 3 x PCIe 3.0 x4 or 1 x PCIe 3.0 x8 + 1 x PCIe 3.0 x4 1 x PCIe 3.0 x8	Up to 1 slot 1 x PCIe 3.0 x16
------------------------	--	----------------------------------

<b>Storage</b>	6 x SATA 6Gb/s ports (RAID 0, 1, 10, 5)	6 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 1 x M.2 connector
----------------	---	--

<b>Networking</b>	2 x 1GbE LAN 1 x Management LAN	2 x 1GbE LAN
-------------------	------------------------------------	--------------

<b>Audio</b>	N/A	N/A
--------------	-----	-----

<b>Other Onboard I/O Devices</b>	2 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x USB 3.1 Gen1 connector at mid-board (Type A USB Socket) 1 x COM port 1 x COM port header 1 x VGA port/header 1 x TPM header	1 x USB 3.1 Gen1 ports at mid-board (Type A USB Socket) 2 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 1 x VGA connector 1 x TPM header
----------------------------------	---	---

<b>Management Solution</b>	ASUS Control Center Optional ASMB8-iKVM for KVM-over-IP	ASUS Control Center Optional ASMB8-iKVM for KVM-over-IP
----------------------------	--	--

<b>Form Factor</b>	Micro ATX, 9.6" x 9.6"	Mini-ITX, 6.7" x 6.7"
--------------------	------------------------	-----------------------



For more information, please visit our website.  
 All specs are subject to change without any prior notice.

# Workstation Motherboards



	WS C621E SAGE	WS C422 PRO/SE	WS C422 SAGE/10G
<b>Processor</b>	2 x Socket P (LGA 3647) Intel® Xeon® Scalable processors (Up to 205W)	1 x Socket R4 (LGA2066) Intel® Xeon® W Series processors (Up to 140 W)	1 x Socket R4 (LGA2066) Intel® Xeon® W Series processors (Up to 140 W)
<b>Chipset</b>	Intel® C621	Intel® C422	Intel® C422
<b>Memory</b>	12 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM/RDIMM 3DS/LR-DIMM 3DS Max 1536 GB	8 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM Max 512GB	8 x DIMM slots DDR4 up to 2666 RDIMM/LR-DIMM Max 512GB
<b>VGA</b>	Aspeed AST2500 64MB	Aspeed AST2500 64MB	Aspeed AST2500 64MB
<b>Multi-GPU support</b>	Support NVIDIA® 4-Way SLI® Technology Support AMD® 4-Way CrossFireX™ Technology	Support NVIDIA® 3-Way SLI® Technology Support AMD® 3-Way CrossFireX™ Technology	Support NVIDIA® 4-Way SLI® Technology Support AMD® 4-Way CrossFireX™ Technology
<b>Expansion Slots</b>	Up to 7 slots 3 x PCIe 3.0 x16 2 x PCIe 3.0 x16 (single at x16, dual at x8/x8) 2 x PCIe 3.0 x8	Up to 5 slots 2 x PCIe 3.0 x16 2 x PCIe 3.0 x16 (single at x16, dual at x8/x8) 1 x PCIe 3.0 x4	Up to 7 slots 7 x PCIe 3.0 x16 Slots (Single at x16, Dual at x16/x16, Quad at x16/x16/x16/x16, Seven at x16/x8/x8/x8/x8/x8)
<b>Storage</b>	8 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 2 x SATA 6Gb/s ports 4 x U.2 connectors 1 x M.2 (Up to 22110 type, SATA & PCIe mode) Optional kits for Intel® VROC Software RAID support	6 x SATA 6Gb/s ports (RAID 0, 1, 10) 1 x U.2 connector 1 x M.2 (Up to 22110 type, PCIe mode) 1 x M.2 (Up to 2280 type, SATA & PCIe mode) Optional kits for Intel® VROC Software RAID support	8 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 2 x U.2 connector 1 x M.2 (Up to 2280 type, PCIe Mode) 1 x M.2 (Up to 22110 type, PCIe Mode) Optional kits for Intel® VROC Software RAID support
<b>Networking</b>	2 x 1GbE LAN	2 x 1GbE LAN	2 x 10GbE LAN
<b>Audio</b>	Realtek® ALC S1220A 7.1 HD Audio	Realtek® ALC S1220A 7.1 HD Audio	Realtek® ALC S1220A 7.1 HD Audio
<b>Other Onboard I/O Devices</b>	2 x USB 3.1 Gen2 ports at rear (1 USB Type-C™) 4 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 4 x USB 3.1 Gen1 headers at mid-board 2 x USB 2.0 headers at mid-board 1 x PS/2 KB/Mouse 5 x Audio Jacks 1 x COM port header 1 x VGA connector 1 x TPM connector	2 x USB 3.1 Gen2 ports at rear (1 USB Type-C™) 4 x USB 3.1 Gen1 ports at rear 4 x USB 2.0 ports at rear 1 x USB 3.1 Gen2 header at mid-board 2 x USB 3.1 Gen1 headers at mid-board 2 x USB 2.0 headers at mid-board 5 x Audio Jacks 1 x COM port header 1 x VGA connector 1 x TPM header	2 x USB 3.1 Gen2 ports at rear (1 USB Type-C™) 4 x USB 3.1 Gen1 ports at rear 1 x USB 3.1 Gen2 header at mid-board 2 x USB 3.1 Gen1 headers at mid-board 5 x Audio Jacks 1 x COM port header 1 x TPM header
<b>Management Solution</b>	Optional ASMB9-iKVM for KVM-over-IP	ASMB9-iKVM for KVM-over-IP	N/A
<b>Form Factor</b>	EEB, 12" x 13"	ATX, 12" x 9.6"	CEB, 12" x 10.5"





### WS C246 PRO

### WS C246M PRO

### WS C246M PRO/SE

<b>Processor</b>	1 x Socket H4 (LGA1151) Intel® Xeon® E processors (Up to 95W) Intel® Core™ i7/i5/i3 processors Intel® Pentium™ processors Intel® Celeron™ processors	1 x Socket H4 (LGA1151) Intel® Xeon® E processors (Up to 95W) Intel® Core™ i7/i5/i3 processors Intel® Pentium™ processors Intel® Celeron™ processors	1 x Socket H4 (LGA1151) Intel® Xeon® E processors (Up to 95W) Intel® Core™ i7/i5/i3 processors Intel® Pentium™ processors Intel® Celeron™ processors
<b>Chipset</b>	Intel® C246	Intel® C246	Intel® C246
<b>Memory</b>	4 x DIMM slots DDR4 up to 2666 ECC/non-ECC UDIMM Max 64GB	4 x DIMM slots DDR4 up to 2666 ECC/ non-ECC UDIMM Max 64GB	4 x DIMM slots DDR4 up to 2666 ECC/non-ECC UDIMM Max 64GB
<b>VGA</b>	Integrated Graphics	Integrated Graphics	Integrated Graphics
<b>Multi-GPU support</b>	Support AMD® 2-Way CrossFireXTM Technology	N/A	N/A
<b>Expansion Slots</b>	Up to 6 slots 2 x PCIe 3.0 x1 1 x PCIe 3.0 x16* 1 x PCIe 3.0 x8 1 x PCIe 3.0 x4 1 x PCIe 3.0 x4 *Switch to x8 link if x8 slot is occupied	Up to 3 slots 1 x PCIe 3.0 x16 1 x PCIe 3.0 x8 1 x PCIe 3.0 x1	Up to 3 slots 1 x PCIe 3.0 x16 1 x PCIe 3.0 x8 1 x PCIe 3.0 x1
<b>Storage</b>	8 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 1 x M.2 (Up to 22110 type, PCIe mode) 1 x M.2 (Up to 2280 type, SATA & PCIe mode)	8 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 1 x M.2 (Up to 2280 type, SATA & PCIe mode)	8 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 1 x M.2 (Up to 2280 type, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN	2 x 1GbE LAN	2 x 1GbE LAN
<b>Audio</b>	Realtek® ALC887 7.1 HD Audio	Realtek® ALC887 7.1 HD Audio	Realtek® ALC887 7.1 HD Audio
<b>Other Onboard I/O Devices</b>	2 x USB 3.1 Gen2 ports at rear (1 USB Type-C™) 4 x USB 3.1 Gen1 ports at rear 1 x USB 3.1 Gen1 header at mid-board 2 x USB 2.0 header at mid-board 1 x HDMI port 1 x Displayport 1 x DVI-D port 1 x VGA port / header 5+1 Audio jacks 1 x COM port header 1 x TPM connector	2 x USB 3.1 Gen2 ports at rear 2 x USB 3.1 Gen1 ports at rear 1 x USB 3.1 Gen1 header at mid-board 2 x USB 2.0 ports at rear 2 x USB 2.0 headers at mid-board 1 x HDMI port 1 x Displayport 1 x VGA port / header 5+1 Audio jacks 1 x COM port header 1 x TPM connector	2 x USB 3.1 Gen2 ports at rear 2 x USB 3.1 Gen1 ports at rear 1 x USB 3.1 Gen1 header at mid-board 2 x USB 2.0 ports at rear 2 x USB 2.0 headers at mid-board 1 x HDMI port 1 x Display port 1 x VGA port 2x VGA port headers 5+1 Audio jacks 1 x COM port header 1 x TPM connector
<b>Management Solution</b>	ASUS Control Center	ASUS Control Center	ASUS Control Center
<b>Form Factor</b>	ATX, 12" x 9.6"	Micro ATX, 9.6" x 9.6"	Micro ATX, 9.6" x 9.6"





### WS X299 PRO

### WS X299 PRO/SE

### WS X299 SAGE

<b>Processor</b>	1 x Socket R4 (LGA2066) Intel® Core™ X-Series processors (Up to 165W)	1 x Socket R4 (LGA2066) Intel® Core™ X-Series processors (Up to 165W)	1 x Socket R4 (LGA2066) Intel® Core™ X-Series processors (Up to 165W)
<b>Chipset</b>	Intel® X299	Intel® X299	Intel® X299
<b>Memory</b>	8 x DIMM slots DDR4 up to 4133(O.C.) non-ECC/un-buffered memory Max 128GB	8 x DIMM slots DDR4 up to 4133(O.C.) non-ECC/un-buffered memory Max 128GB	8 x DIMM slots DDR4 up to 4200(O.C.) non-ECC/un-buffered memory Max 128GB
<b>VGA</b>	N/A	Aspeed AST2500 64MB	N/A
<b>Multi-GPU support</b>	Support NVIDIA® 3-Way SLI® Technology Support AMD® 3-Way CrossFireX™ Technology	Support NVIDIA® 3-Way SLI® Technology Support AMD® 3-Way CrossFireX™ Technology	Support NVIDIA® 4-Way SLI® Technology Support AMD® 4-Way CrossFireX™ Technology
<b>Expansion Slots</b>	Up to 5 slots 2 x PCIe 3.0 x16 1 x PCIe 3.0 x8 2 x PCIe 3.0 x4	Up to 5 slots 2 x PCIe 3.0 x16 1 x PCIe 3.0 x8 2 x PCIe 3.0 x4	Up to 7 slots 7 x PCIe 3.0 x16 Slots (Single at x16, Dual at x16/x16, Quad at x16/x16/x16/x16, Seven at x16/x8/x8/x8/x8/x8/x8)
<b>Storage</b>	6 x SATA 6.0 Gb/s ports (RAID 0, 1, 10, 5) 1 x U.2 connector 1 x M.2 (Up to 22110 type, PCIe mode) 1 x M.2 (Up to 2280 type, SATA & PCIe mode) Optional kits for Intel® VROC Software RAID support	6 x SATA 6.0 Gb/s ports (RAID 0, 1, 10, 5) 1 x U.2 connector 1 x M.2 (Up to 22110 type, PCIe mode) 1 x M.2 (Up to 2280 type, SATA & PCIe mode) Optional kits for Intel® VROC Software RAID support	8 x SATA 6.0 Gb/s ports (RAID 0, 1, 10, 5) 2 x U.2 connectors 1 x M.2 (Up to 22110 type, PCIe mode) 1 x M.2 (Up to 2280 type, SATA & PCIe mode) Optional kits for Intel® VROC Software RAID support
<b>Networking</b>	2 x 1GbE LAN	2 x 1GbE LAN	2 x 1GbE LAN
<b>Audio</b>	Realtek® ALC S1220A 7.1 HD Audio	Realtek® ALC S1220A 7.1 HD Audio	Realtek® ALC S1220A 7.1 HD Audio
<b>Other Onboard I/O Devices</b>	2 x USB 3.1 Gen2 ports at rear 4 x USB 3.1 Gen1 ports at rear 4 x USB 2.0 ports at rear 1 x USB 3.1 Gen2 header at mid-board 2 x USB 3.1 Gen1 headers at mid-board 2 x USB 2.0 headers at mid-board 1 x COM port header 5 x Audio jacks 1 x TPM header	2 x USB 3.1 Gen2 ports at rear (1 USB Type-C™) 4 x USB 3.1 Gen1 ports at rear 4 x USB 2.0 ports at rear 1 x USB 3.1 Gen2 header at mid-board 2 x USB 3.1 Gen1 headers at mid-board 2 x USB 2.0 headers at mid-board 1 x COM port header 5 x Audio jacks 1 x VGA connector 1 x TPM header	2 x USB 3.1 Gen2 ports at rear (1 USB Type-C™) 6 x USB 3.1 Gen1 ports at rear 4 x USB 2.0 ports at rear 1 x USB 3.1 Gen2 header at mid-board 2 x USB 3.1 Gen1 headers at mid-board 5 x Audio jacks 1 x COM port header 1 x TPM header
<b>Management Solution</b>	N/A	ASMB9-iKVM for KVM-over-IP	N/A
<b>Form Factor</b>	ATX, 12" x 9.6"	ATX, 12" x 9.6"	CEB, 12" x 10.5"





**WS X299 SAGE/10G**



**WS Z390 PRO**



**Z10PE-D16 WS**

	<b>WS X299 SAGE/10G</b>	<b>WS Z390 PRO</b>	<b>Z10PE-D16 WS</b>
<b>Processor</b>	1 x Socket R4 (LGA2066) Intel® Core™ X-Series processors (Up to 165W)	1 x Socket H4 (LGA1151) Intel® Core™ i7/i5/i3 processors Intel® Pentium™ processors Intel® Celeron™ processors	2 x socket R3(LGA2011-3) Intel® Xeon® E5 processors Intel® Core™ i7 processors
<b>Chipset</b>	Intel® X299	Intel® Z390	Intel® C612
<b>Memory</b>	8 x DIMM slots DDR4 up to 4200(O.C.) non-ECC/un-buffered memory Max 128GB	4 x DIMM slots DDR4 up to 4266(O.C.) Non-ECC/Un-buffered Memory Max 64GB	16 x DIMM slots DDR4 up to 2400 RDIMM/LR-DIMM Max 1024GB
<b>VGA</b>	N/A	Integrated Graphics	ASpeed AST2400 32MB
<b>Multi-GPU support</b>	Support NVIDIA® 4-Way SLI® Technology Support AMD® 4-Way CrossFireX™ Technology	Support NVIDIA® 4-Way SLI® Technology Support AMD® 4-Way CrossFireX™ Technology	N/A
<b>Expansion Slots</b>	Up to 7 slots 7 x PCIe 3.0 x16 Slots (Single at x16, Dual at x16/x16, Quad at x16/x16/x16/x16, Seven at x16/x8/x8/x8/x8/x8/x8)	Up to 5 slots 4 x PCIe 3.0/2.0 x16 (single at x16, dual at x16/x16, triple at x16/x8/x8, quad x8/x8/x8/x8) 1 x PCIe x4	Up to 6 slots 4 x PCIe 3.0 x16 2 x PCIe 3.0 x8
<b>Storage</b>	8 x SATA 6.0 Gb/s ports (RAID 0, 1, 10, 5) 1 x U.2 connector 1 x M.2 (Up to 22110 type, PCIe mode) 1 x M.2 (Up to 2280 type, SATA & PCIe mode) Optional kits for Intel® VROC Software RAID support	6 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 2 x U.2 connectors 2 x M.2 connectors (Up to 22110 type, SATA & PCIe mode)	10 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 1 x M.2 (up to 22110 type)
<b>Networking</b>	2 x 10GbE LAN	2 x 1GbE LAN	2 x 1GbE LAN 1 x Mgt LAN
<b>Audio</b>	Realtek® ALC S1220A 7.1 HD Audio CODEC	Realtek® ALC S1220A 7.1 HD Audio	Realtek® ALC1150 7.1 HD Audio
<b>Other Onboard I/O Devices</b>	2 x USB 3.1 Gen2 ports at rear (1 USB Type-C™) 4 x USB 3.1 Gen1 ports at rear 1 x USB 3.1 Gen2 header at mid-board 2 x USB 3.1 Gen1 headers at mid-board 5 x Audio jacks 1 x COM port header 1 x TPM header	6 x USB 3.1 Gen2 ports at rear (1 USB Type-C™) 2 x USB 3.1 Gen1 ports at rear 4 x USB 2.0 ports at rear 2 x USB 3.1 Gen2 headers at mid-board 2 x USB 2.0 headers at rear 1 x HDMI port 1 x Displayport 5 x Audio jacks 1 x COM port header 1 x TPM Header	4 x USB 3.1 Gen1 ports at rear 4 x USB 2.0 ports at rear 1 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x VGA header 1 x TPM header 1 x COM port header 1 x ASMB8-iKVM header
<b>Management Solution</b>	N/A	N/A	N/A
<b>Form Factor</b>	CEB, 12"x 10.5"	ATX, 12" x 9.6"	EEB, 12"x 13"

For more information, please visit our website.  
All specs are subject to change without any prior notice.





### Z10PE-D8 WS

### Z270-WS

### P10S WS

<b>Processor</b>	2 x socket (LGA2011) Intel® Xeon® E5 processors Intel® Core™ i7 processors	1 x Socket H4 (LGA1151) Intel® Core™ i7/i5/i3 processors Intel® Pentium™ processors Intel® Celeron™ processors	1 x Socket H4 (LGA1151) Intel® Xeon® E processors (Up to 95W) Intel® Core™ i7/i5/i3 processors Intel® Pentium™ processors Intel® Celeron™ processors
<b>Chipset</b>	Intel® C612	Intel® Z270	Intel® C236
<b>Memory</b>	8 x DIMM slots DDR4 up to 2400 RDIMM/LR-DIMM Max 512GB	4 x DIMM slots DDR4 3866(O.C.) non-ECC/un-buffered memory Max 64GB	4 x DIMM slots DDR4 up to 2400 ECC/non-ECC UDIMM Max 64GB
<b>VGA</b>	ASpeed AST2400 32MB	Integrated Graphics	Integrated Graphics
<b>Multi-GPU support</b>	N/A	Support NVIDIA® 4-Way/Quad-GPU SLI® Technology Support AMD® 4-Way/Quad-GPU CrossFireX™ Technology	Support AMD® Quad-GPU CrossFireXTM Technology
<b>Expansion Slots</b>	Up to 7 slots 4 x PCIe 3.0 x16 (Quad x8/x8/x8/x8) 2 x PCIe 3.0 x16 1 x PCIe 3.0 x16 (x8)	Up to 5 slots 4 x PCIe 3.0 x16 (Single at x16, Dual at x16/x16, Triple at x16/x8/x8, Quad at x8/x8/x8/x8) 1 x PCIe 3.0 x4	Up to 4 slots 1 x PCIe 3.0 x16 (x16/x8) 1 x PCIe 3.0 x8 2 x PCIe 3.0 x4
<b>Storage</b>	8 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 1 x SATA 6Gb/s Express port 1 x M.2 (up to 22110 type)	6 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) 2 x U.2 connectors 1 x M.2 connectors (Up to 22110 type, SATA & PCIe mode) 1 x M.2 connectors (Up to 22110 type, PCIe mode)	8 x SATA 6Gb/s ports (RAID 0, 1, 10, 5) or 6 x SATA 6Gb/s with 2 x M.2 (Up to 22110 type, SATA & PCIe mode)
<b>Networking</b>	2 x 1GbE LAN	2 x 1GbE LAN	2 x 1GbE LAN
<b>Audio</b>	Realtek® ALC1150 7.1 HD Audio	Realtek® S1220A 7.1 HD, DTS® Connect/DTS® Headphone:X	Realtek® ALC1150 7.1 HD Audio
<b>Other Onboard I/O Devices</b>	6 x USB 3.1 Gen1 ports at rear 2 x USB 2.0 ports at rear 2 x USB 3.1 Gen1 header at mid-board 1 x USB 2.0 header at mid-board 1 x TPM header 1 x COM port header 1 x VGA header 1 x ASMB8-iKVM header	2 x USB 3.1 Gen2 ports at rear (1 USB Type-C™) 4 x USB 3.1 Gen1 ports at rear 4 x USB 2.0 ports at rear 1 x USB 3.1 Gen2 header at mid-board (optional Type A or USB Type-C™) 2 x USB 3.1 Gen1 headers at mid-board 2 x USB 2.0 headers at mid-board 1 x HDMI port 1 x Displayport 5 x Audio jacks 1 x Optical S/PDIF out 1 x COM port header 1 x TPM Header	2 x USB 3.1 Gen2 ports at rear (1 USB Type-C™) 4 x USB 3.1 Gen1 ports at rear 2 x USB 3.1 Gen1 header at mid-board 2 x USB 2.0 headers at mid-board 1 x TPM header 1 x serial port header 1 x 8-channel Audio I/O 1 x DVI-D 1 x HDMI 1 x Displayport 1 x VGA
<b>Management Solution</b>	N/A	WfM 2.0, DMI 3.0, WOL by PME, PXE	ASUS Control Center
<b>Form Factor</b>	EEB, 12" x 13"	ATX, 12" x 9.6"	ATX, 12" x 9.6"





### P10S-M WS/IPMI-O

### P10S-M WS

#### Processor

1 x Socket H4 (LGA1151)  
 Intel® Xeon® E processors (Up to 95W)  
 Intel® Core™ i7/i5/i3 processors  
 Intel® Pentium™ processors  
 Intel® Celeron™ processors

1 x Socket H4 (LGA1151)  
 Intel® Xeon® E processors (Up to 95W)  
 Intel® Core™ i7/i5/i3 processors  
 Intel® Pentium™ processors  
 Intel® Celeron™ processors

#### Chipset

Intel® C236

Intel® C236

#### Memory

4 x DIMM slots  
 DDR4 up to 2400 ECC/non-ECC UDIMM  
 Max 64GB

4 x DIMM slots  
 DDR4 up to 2400 ECC/non-ECC UDIMM  
 Max 64GB

#### VGA

Integrated Graphics

Integrated Graphics

#### Multi-GPU support

NA

NA

#### Expansion Slots

Up to 3 slots  
 1 x PCIe 3.0 x16  
 1 x PCIe 3.0 x8  
 1 x PCIe 3.0 x1

Up to 3 slots  
 1 x PCIe 3.0 x16  
 1 x PCIe 3.0 x8  
 1 x PCIe 3.0 x1

#### Storage

8 x SATA 6Gb/s ports (RAID 0, 1, 10, 5)  
 or 7 x SATA 6Gb/s ports with 1 x M.2  
 (Up to 22110 type, SATA & PCIe mode)

8 x SATA 6Gb/s ports (RAID 0, 1, 10, 5)  
 or 7 x SATA 6Gb/s ports with 1 x M.2 (Up to 22110 type,  
 SATA & PCIe mode)

#### Networking

2 x 1GbE LAN  
 1 x Management port

2 x 1GbE LAN

#### Audio

Realtek® ALC1150 7.1 HD Audio

Realtek® ALC1150 7.1 HD Audio

#### Other Onboard I/O Devices

2 x USB 2.0 ports at rear  
 2 x USB 3.1 Gen1 headers at mid-board  
 1 x USB 2.0 at mid-board  
 1 x 8-channel Audio I/O  
 1 x VGA header  
 1 x TPM header  
 1 x COM port header  
 2 x USB 3.1 Gen1 ports at rear  
 1 x DVI-D  
 1 x HDMI  
 1 x Displayport

2 x USB 2.0 ports at rear  
 2 x USB 3.1 Gen1 headers at mid-board  
 1 x USB 2.0 headers at mid-board  
 1 x 8-channel Audio I/O  
 1 x VGA header  
 1 x TPM header  
 1 x COM port header  
 2 x USB 3.1 Gen1 Ports at rear  
 1 x DVI-D  
 1 x HDMI

#### Management Solution

ASUS Control Center

ASUS Control Center

#### Form Factor

Micro ATX 9.6" x 9.6"

Micro ATX 9.6" x 9.6"



# Accessory PIKE II



**PIKE II 3108-8i/240PD/2G**



**PIKE II 3108-8i/240PD**



**PIKE II 3108-8i/16PD/2G**

<b>Controller</b>	Broadcom (LSI) SAS3108	Broadcom (LSI) SAS3108	Broadcom (LSI) SAS3108
<b>Interface</b>	PCIe 3.0 x8	PCIe 3.0 x8	PCIe 3.0 x8
<b>Ports</b>	8 internal ports (by 2 Mini-SAS HD SFF-8643)	8 internal ports (by 2 Mini-SAS HD SFF-8643)	8 internal ports (by 2 Mini-SAS HD SFF-8643)
<b>Supported Device</b>	SAS/SATA Devices	SAS/SATA Devices	SAS/SATA Devices
<b>Data Transfer Rate</b>	Max SAS 12Gb/s Max SATA 6Gb/s	Max SAS 12Gb/s Max SATA 6Gb/s	Max SAS 12Gb/s Max SATA 6Gb/s
<b>RAID Level Supported</b>	0, 1, 10, 5, 6, 50, 60 (Max Physical Devices for RAID: 240)	0, 1, 10, 5, 6, 50, 60 (Max Physical Devices for RAID: 240)	0, 1, 10, 5, 6, 50, 60 (Max Physical Devices for RAID: 16)
<b>JBOD Mode</b>	Yes	Yes	Yes
<b>Embedded Memory</b>	2GB DDR3	1GB DDR3	2GB DDR3
<b>Cache Protection</b>	CacheVault Module (Optional)	CacheVault Module (Optional)	CacheVault Module (Optional)
<b>Board Form Factor</b>	Low profile MD2 card	Low profile MD2 card	Low profile MD2 card
<b>Dimension</b>	6.6" x 2.71"	6.6" x 2.71"	6.6" x 2.71"



**PIKE II 3108-8i/16PD**



**PIKE II 3008-8i**

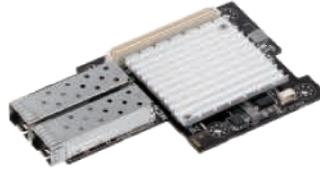
<b>Controller</b>	Broadcom (LSI) SAS3108	Broadcom (LSI) SAS3008
<b>Interface</b>	PCIe 3.0 x8	PCIe 3.0 x8
<b>Ports</b>	8 internal ports (by 2 Mini-SAS HD SFF-8643)	8 internal ports (by 2 Mini-SAS HD SFF-8643)
<b>Supported Device</b>	SAS/SATA Devices	SAS/SATA Devices
<b>Data Transfer Rate</b>	Max SAS 12Gb/s Max SATA 6Gb/s	Max SAS 12Gb/s Max SATA 6Gb/s
<b>RAID Level Supported</b>	0, 1, 10, 5, 6, 50, 60 (Max Physical Devices for RAID: 16)	0, 1, 10, 1E
<b>JBOD Mode</b>	Yes	Yes
<b>Embedded Memory</b>	1GB DDR3	N/A
<b>Cache Protection</b>	CacheVault Module (Optional)	N/A
<b>Board Form Factor</b>	Low profile MD2 card	Low profile MD2 card
<b>Dimension</b>	6.6" x 2.71"	5.81" x 2.71"



# Accessory LAN



**MCC-25G/41202-2S**

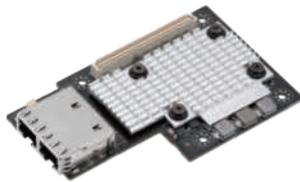


**MCB-10G-2S**



**MCI-10G/82599-2S**

	MCC-25G/41202-2S	MCB-10G-2S	MCI-10G/82599-2S
<b>Controller</b>	Cavium QL41202	BCM 57840S	Intel® 82599
<b>Data Transfer Rate</b>	25Gbps Ethernet	10Gbps Ethernet	10Gbps Ethernet
<b>Connection Port</b>	SFP28, Dual Port	SFP+, Dual Port	SFP+, Dual Port
<b>Host Interface</b>	PCIe 3.0 x8	PCIe 3.0 x8	PCIe 2.0 x8
<b>Board Form Factor</b>	OCP Mezzanine Card	OCP Mezzanine Card	OCP Mezzanine Card
<b>Dimension</b>	2.68" x 4.33"	2.68" x 4.33"	2.68" x 4.33"
<b>Feature</b>	RDMA SR-IOV iSCSI Boot PXE	SR-IOV FCoE Boot iSCSI Boot PXE	SR-IOV FCoE Boot iSCSI Boot PXE



**MCI-10G/X550-2T**



**MCI-1G/350-4T**

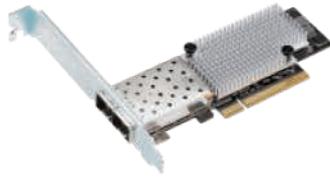


**MCI-1G/350-2T**

	MCI-10G/X550-2T	MCI-1G/350-4T	MCI-1G/350-2T
<b>Controller</b>	Intel® X550-AT2	Intel® I350-AM4	Intel® I350-AM2
<b>Data Transfer Rate</b>	10Gbps Ethernet	1Gbps Ethernet	1Gbps Ethernet
<b>Connection Port</b>	RJ45, Dual Port	RJ45, Quad Port	RJ45, Dual Port
<b>Host Interface</b>	PCIe 3.0 x8	PCIe 2.0 x4	PCIe 2.0 x4
<b>Board Form Factor</b>	OCP Mezzanine Card	OCP Mezzanine Card	OCP Mezzanine Card
<b>Dimension</b>	2.68" x 4.33"	2.68" x 4.33"	2.68" x 4.33"
<b>Feature</b>	SR-IOV FCoE Boot iSCSI Boot PXE	SR-IOV PXE	SR-IOV PXE

For more information, please visit our website.  
All specs are subject to change without any prior notice.





**PEB-10G/57840-2S**



**PEB-10G/57840-2T**



**PEI-10G/82599-2S**

	<b>PEB-10G/57840-2S</b>	<b>PEB-10G/57840-2T</b>	<b>PEI-10G/82599-2S</b>
<b>Controller</b>	BCM 57840S	BCM 57840S BCM 84833 (PHY)	Intel® 82599
<b>Data Transfer Rate</b>	10Gbps Ethernet	10Gbps Ethernet	10Gbps Ethernet
<b>Connection Port</b>	SFP+, Dual Port	RJ45, Dual Port	SFP+, Dual Port
<b>Host Interface</b>	PCIe 3.0 x8	PCIe 3.0 x8	PCIe 2.0 x8
<b>Board Form Factor</b>	Low Profile Card	Low Profile Card	Low Profile Card
<b>Dimension</b>	4.72" x 1.77"	4.72" x 1.77"	4.72" x 1.77"
<b>Feature</b>	SR-IOV FCoE Boot iSCSI Boot PXE	SR-IOV FCoE Boot iSCSI Boot PXE	SR-IOV FCoE Boot iSCSI Boot PXE



# Server & Workstation Care



ASUS guarantees quality, service and reliability. That's why we offer an exclusive one-day advanced replacement and return merchandise authorization service —1-Day ARS. In addition to rapid replacement, all ASUS barebones servers, server motherboards and workstations carry a 3-year limited warranty in most territories — with satisfaction guaranteed.



## 1 Day ARS

ASUS 1-Day ARS allows for convenient return and replacement of defective products (barebone servers, server motherboards and workstations) via system integrators (SI) and value-added resellers (VAR) throughout the United States, Canada with 1



## 3-Year Warranty

The ASUS 3-year limited warranty protects all ASUS server products that means barebone servers, server motherboards and workstations are all covered. During the 3-year warranty period ASUS will repair or replace defective components, allowing your business or organization to continue with minimal disruption.

## 5 Step of 1-Day ARS

- 1 Contact ASUS for Tech Support**  
 or   
Email or Phone call
- 2 Problem Define**  
  
Software problem? Hardware problem?
- 3 Fill out Advance RMA Form**  

- 4 Send RMA Form and get RMA No.**  

- 5 Receive Replacement and Return Defective Parts**  


\*0,14 Euro/Minute aus dem dt. Festnetz, Mobilfunk max. 0,42 Euro/Minute



# ASUS Control Center

## Comprehensive IT Infrastructure Management Software

### Optimized IT infrastructure administration

Monitor and control devices within your corporate network via a detailed dashboard that provides real-time data to identify system failures, and perform timely asset management checking.

### Secure management of all network endpoints

Remotely disable the registry editor to block USB storage for all nodes at once, monitor client device status, and perform automatic reboots via watchdog programs.

### Automated IT maintenance

Schedule automatic updates of the latest BIOS, software and utilities to multiple devices spontaneously with batch deployment and optimize energy usage and reduce outage risks with robust power management tools.

\* Software functions may vary by version. Please consult your local sales representative for more information. \*\* To find out more about ASUS Control Center, please visit <https://asuscontrolcenter.asus.com/>

**ASUS**<sup>®</sup>  
IN SEARCH OF INCREDIBLE

<https://www.asus.com/Commercial-Servers-Workstations/>

