# ASUS Milestones

1995  
**Tier 1 OEM/ODM**

2000  
**Datacenter OEM/ODM**

2005  
**ASUS white-label solution**

2008  
**First delivery of server products to leading cloud service provider**

2010  
**Joined Open Compute Project 1.0 development**

2011  
- **Launched BMC solution – ASMB6-iK VM**
- **Joined VMware technology partnership**

2012  
- **Released supercomputing, big data and storage server solutions**
- **Launched BMC solution – ASMB7-4xVM**

2014  
- **Achieved Green500 Top 1 with ESC4000-G2S**
- **Launched ASUS System Web-based Management (ASWM)**
- **Launched BMC solution – ASMB8-iK VM**

2016  
- **Released GPU servers for deep learning, AI and VDI**

2017  
- **Won 2017 Taiwan Excellence Award for server products**
- **Launched datacenter-level management utility – ASUS Control Center**
- **Performance tuning and No. 1 performance record in 2P solution**
- **Launched BMC solution – ASMB9-iK VM**
- **Joined Microsoft technology partnership**

2018  
- **First delivery of server products to medical provider**
- **Ranked Top 20 in Taiwan’s 2 and ranked Top 10 in Green500**
- **Joined Red Hat technology partnership**

2020  
- **Joined Ubuntu technology partnership**

2021  
- **Launched BMC solution – ASMB10-iK VM**
- **First delivery to EEMEA cloud service provider**
- **Jointly developed 5G edge server with 5G provider**
- **Joined MLCommons membership**

2022  
- **World records on MLPerf training and inference**

2023  
- **World records on MLPerf training and inference**

## BUILT WITH THE ENVIRONMENT IN MIND

ASUS is one of the members in RE100, a global renewable energy initiative, to achieve 100% renewable energy.

ASUS has set to achieve:

- **100% renewable energy usage in Taiwan-based operations centers by 2030, and in global operations centers by 2035**
- **50% carbon emissions reduction from global operations centers by 2030**
- **30% above Energy Star standard efficiency from key products**
- **30% reduction in carbon intensity rates from key suppliers**

## PRODUCING

Since 2013, ASUS introduced postconsumer recycled plastic as mechanical housing.

## PACKAGING

ASUS continuously designs exclusive technologies that raise energy efficiency on hardware and software.

## USING

Since 2012, packaging design department improved the folding structure of the packaging materials, this method received relevant patents.

## RETIRING

Safeguarded support for recycling programs and ensures that charitable organizations benefit from these initiatives.
Meet the industry’s highest environmental certifications

In 2020 alone, ASUS earned 69,965 green certifications from some of the most prestigious international organizations around the world.

Green ASUS

Keeping Environment

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 Green ASUS 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.

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

Good product 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 packaging follow greener principles too.

Servers Care

ASUS guarantees quality, service and reliability. That’s why we offer an exclusive one-day advanced replacement and return merchandise authorization service – known as 1-Day ARS. In addition to rapid replacement, all ASUS barebone servers, server motherboards 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) via system integrators (SI) and value-added resellers (VAR) throughout the United States, Canada within one day.

3-Year Warranty

The ASUS 3-year limited warranty protects all ASUS server products that means barebone servers, server motherboards 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.

Global Presence

ASUS has a very strong global presence. Our products are recognized throughout the world and are sold in 113 countries through more than 70 branch offices worldwide. ASUS also has more than 1,400 support centers across the globe that are ready to assist our customers anytime, anywhere.

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No. 1 Benchmark World Records

Taking advantage of the AMD EPYC™ 9004 processors’ compute leadership performance, ASUS servers powered by EPYC™ 9004 achieved the No.1 result for performance – securing a top ranking across SPEC CPU2017 benchmarks on SPEC org. The results demonstrate that ASUS leadership with the new AMD EPYC™ processors, delivering outstanding performance for the server industry.

ASUS RS700A-E12 & RS520A-E12 servers are tested the highest scores on SPEC CPU2017 multiple benchmarks. All results can be verified on 10, November, 2022 at SPEC.org.

RS720QA-E12-RS8U
Multi-node server with high core counts and memory bandwidth for compute-intensive workloads

CPU
AMD EPYC™ 9004 Series Processor
Chipset
SoC
Memory Type
24 x DIMM slots (Per Node), DDR5 up to 4800 RDIMM/RDIMM 3DS, Max 6TB
Drive bays
8
Additional OS Drive
2
Networking
2 x 10GbE LAN, 1 x Management port

ESC8000A-E12P
High-density GPU server with additional expansion for AI/HPC workloads

CPU
AMD EPYC™ 9004 Series Processor
Chipset
SoC
Memory Type
24 x DIMM slots (Per CPU), DDR5 up to 4600 RDIMM/RDIMM 3DS, Max 6TB
Drive bays
8
Additional OS Drive
1
Networking
2 x 1 GbE LAN or 2 x 10 GbE LAN, 1 x Management port
HPC Data Center Solutions powered by 4th Gen Intel® Xeon® Scalable Processors

ASUS servers powered by 4th Gen Intel® Xeon® Scalable or high-bandwidth memory (HBM) processors are optimized to deliver supreme computing performance and energy efficiency for HPC, AI, data analytics and virtualization. Our enhanced thermal design and innovative liquid-cooling solutions improve data-center power-usage effectiveness, enabling scale up and scale out to accelerate and optimize complex workloads.

ESC8000-E11P
High-density GPU server with additional expansion for AI/HPC workloads

- CPU: 4th Gen Intel Xeon Scalable Processors
- Memory: 32 x DIMM slots (16 DIMM per CPU) DDR5 up to 4800Mhz
- Drive bays: 6
- Additional OS Drive: 1
- Networking: 2 x 1 GbE LAN or 2 x 10 GbE LAN, 1 x Management port

RS700-E11-RS4
Great balance on performance, efficiency, and manageability for multi-workload

- CPU: 4th Gen Intel Xeon Scalable Processors
- Memory: 32 x DIMM slots (16 DIMM per CPU) DDR5 up to 4800Mhz
- Drive bays: 4
- Additional OS Drive: 2
- Networking: 4 x 1Gbe LAN or 2 x 10Gbe LAN, 1 x Management port

HPC Data Center Solutions with 4th Gen Intel® Xeon® Scalable Processors

- Support the highest performance CPUs and GPUs and the latest PCIe 5.0, DDR5 CXL 1.1 technologies
- Extends I/O availability and high bandwidth memory for more computing capability
- Unlock SSD RAID performance with SupremeRAID™ technology, deliver up to 24 MM/s
- More scalable options in middle and rear bays
- New HDD tray and independent airflow tunnel design deliver energy-efficient performance
- Immersion and direct-to-chip liquid cooling solutions for improved PUE and reduced operational costs
- Flexible design to configure PCIe x16 slots for specific workloads
- GPU servers designed with space optimization for liquid cooling solutions
- Stand-out AI training and inference performance proved by MLPerf benchmarks

Liquid Cooling Solutions

- Over 92% Lower fan power
- Over 29.6% Lower noise level

Air Cooling Solutions

- 8 x 350 W CPUs
- 2 x 350W CPUs, 8 x 350W GPUs

Independent Airflow Tunnel Design

- Over 8

Comprehensive Cooling Solutions

- Support the highest performance CPUs and GPUs and the latest PCIe 5.0, DDR5 CXL 1.1 technologies
- Extends I/O availability and high bandwidth memory for more computing capability
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Multiple GPU and FPGA Support

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Over 8

Superior Performance

Scalable Storage Solutions

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Over 8

Multiple GPU and FPGA Support
ASUS holds the most amount of records on the SPEC CPU® 2017 benchmark in single-socket (1P) and dual-socket (2P). These world records are set by servers running across Intel and AMD platforms and workloads ranging from general business infrastructure, software-defined deployment, data analytics, AI, and HPC (High Performance Computing).

**SPEC** is a corporation formed to establish and endorse standardized benchmarks and tools to evaluate performance and energy efficiency of computer systems.

### Benchmark World Records
- **1183+**

### Core Optimizer
Maximizes the processor frequency in multi-core operations, avoiding frequency shifting for reduced latency.

### Engine Boost
Automatic power acceleration with an innovative voltage design to increase server overall performance.

### Workload Presets
Preconfigured BIOS server profiles based on workloads and benchmarks for improved performance and efficiency.

### Performance Boost Technology
ASUS servers feature exclusive Performance Boost technology to achieve the best server performance and agility by tuning servers to match the requirements of workloads, letting you gain greater control of your server environment. This technology improves workload throughput by maximizing processor frequency and boost power, ideal for time-sensitive applications such as financial services or data center operations. In the BIOS you can choose from pre-configured server profiles optimized for specific workloads, maximizing overall performance and reducing server-configuration time.

### Performance Enhancement with Workload Presets

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ASUS is focused on creating complete, optimized solutions and strives to cultivate strong industry partnerships to enhance AI developments in diverse fields to push technology to its limits. As an integrated-solutions partner, we deliver leading hardware for the fields of supercomputing and data centers, supported by an extensive AI portal and AI software stack.

### Top records on MLPerf training and inference

#### ESC8000A-E11
- **8 PCIe GPU Server**
- NVIDIA A100 x8

#### ESC4000E10S
- **4 PCIe GPU Server**
- NVIDIA A30 x4

#### ESC4000A-E11
- **4 PCIe GPU Server**
- NVIDIA A100 x4

#### ESC N4A-E11
- **4 PCIe GPU Server**
- NVIDIA A100 x4

**MLPerf**

- **66+**

**MLCommons®** is an open engineering consortium, built on a philosophy of open collaboration and accelerate machine learning innovation.
ASUS INNOVATIONS ON SERVER SOFTWARE

ASUS Control Center

ASUS Control Center (ACC) for Enterprise is an excellent centralized management tool for servers and client devices. It is tailored for efficient IT management, including both hardware- and software-inventory management, and the remote dispatch of both software and firmware updates. It also allows for simple remote device configurations and health checks, plus rapid deployment of latest security policies and patches. In short, ACC Enterprise is a one-stop portal for IT management, and has been embraced by industries and businesses globally to minimize administration and maximize uptime.

Design for Enterprise

BIOS Flash Update  Software Inventory  Hardware Inventory  Real-time System Monitor  Software Dispatch Task  Power and Security Control

ASUS servers integrate PFR FPGA as the platform Root-of-Trust solution for firmware resiliency to prevent hackers from gaining access to infrastructure. ASUS PFR solution provides authentication check in firmware to ensure firmware free of malicious attack and offer recovery, protection to systems with ease of mind.

ASUS ASMB11-iKVM

The latest ASUS server management solution – ASMB11-iKVM is built upon the ASPEED 2600 chipset running on the latest AMI MegaRAC SP-X. The module provides various interfaces to enable out-of-band server management through WebGUI, Intelligent Platform Management Interface (IPMI) and Redfish® API.

What ASMB11-iKVM offers?

ASMB11-iKVM is an Intelligent Platform Management Interface (IPMI) 2.0-compliant module that allows you to monitor, control and manage a remote server from a local or central server attached to your network. ASMB11-iKVM also supports Redfish protocol for fast, efficient device management.

Modern

Graphical dashboard based on responsive HTML5, enabling fast, simple and intuitive navigation from almost any modern device.

Remote

Remote-management capabilities enhance work flexibility, reducing resources for minimized total cost of ownership (TCO).

Centralization

Single console-style interfaces allows IT managers to manage and configure devices collectively, from a central location.
LIQUID COOLING SOLUTIONS
Unparalleled cooling performance for the modern data center

A comprehensive liquid cooling solution
Optimized for intensive workloads, the solution requires a high TDP CPU and GPU server within an energy efficient present challenges for building data center, liquid cooling deliver more optimized space design, lower PUE and Operating Expenditures to balance power consumption and green energy awareness. By working with our partners, we're able to deliver a total solution — from servers to liquid-cooling modules, and even data center floor plans and suggested infrastructure.

The top four reasons to choose liquid cooling

**Denser Computational Power**
While a server rack with conventional air cooling can manage up to 30 kW of heat dissipation, direct liquid cooling can scale much more. This increase in thermal capacity allows more computational density for servers, upgrading the scale of a data center to accelerate and optimize complex workloads.

**Much improved PUE**
The thermal efficiency of liquid cooling dramatically improves the PUE of a data center by reducing the demand for CRAC and cooling fans, and liquid coolant is a more efficient medium of heat exchange than air.

**Save on OpEX in long term**
A data center with liquid cooling is customarily designed for heat recirculation. The hot coolant exiting a server is directed through a heat exchanger system that recycles heat into more energy, further reducing OpEx for utilities. Thanks to this system, the initial cost of most direct liquid cooling servers can be recovered within the first 12 months of operation, providing potentially significant savings over time.

**A much quieter environment**
In addition to saving energy through the reduction of CRAC systems and fans, liquid cooling can also reduce fan noise, leading to a healthier work environment for data center personnel. The average acoustic impact of air-cooling is between 75 dBA and 95 dBA, whereas liquid cooling averages below 75 dBA. Enterprise, office and military data centers can particularly benefit.

**Direct-to-chip cooling solution**
ASUS direct-to-chip cooling is a quick, simple option that’s based on existing infrastructure. D2C can be deployed quickly, and lower PUE (power-usage effectiveness). ASUS servers can support manifolds and cool plates to enable diverse cooling solutions. Moreover, ASUS servers can support a rear-door heat exchanger that complies with standard rack-server designs, so there’s no need to replace all racks — just the rear door. This lowers the total cost of ownership, and increases data center utilization ratio.

**Immersive cooling solution**
ASUS Immersion cooling is another highly-effective solution from ASUS. This technique offers more advantages on PUE and encompasses higher-density servers. However, it also demands more space, and may require retouching of the data center infrastructure. But immersion cooling can control temperatures more rapidly, efficiently and cost-effectively than traditional methods. For users of supercomputers in particular, immersion cooling is the preferred option.

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## Specifications

### Rack Servers

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<td>R5720QA-E12-R58U</td>
<td>AMD EPYC™ 9004 Series Processors (up to 1600W)</td>
<td>1+1 Redundant 2600W 80 PLUS Platinum Power Supply</td>
<td>DDR5 4800/4400 RDIMM/3DS RDIMM</td>
<td>24 x 2.5&quot; Hot-Swap drive bays</td>
<td>4 x 1GbE or 2 x 10GbE LAN port</td>
<td>2 x PCIe Gen 5 slots</td>
<td>Optional FRU module</td>
<td>AGUS Control Center</td>
<td>847mm x 444mm x 87.3mm (2U)</td>
<td>20.3 kg</td>
<td>1600W 80 PLUS Platinum Power Supply</td>
</tr>
<tr>
<td>R5720A-E12-R52U</td>
<td>AMD EPYC™ 9004 Series Processors (up to 1600W)</td>
<td>1+1 Redundant 2600W 80 PLUS Platinum Power Supply</td>
<td>DDR5 4800/4400 RDIMM/3DS RDIMM</td>
<td>24 x 2.5&quot; Hot-Swap drive bays</td>
<td>4 x 1GbE or 2 x 10GbE LAN port</td>
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<td>AGUS Control Center</td>
<td>842.5mm x 449mm x 43.85mm (1U)</td>
<td>13.93 kg</td>
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<td>R5720A-E12-R24</td>
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<td>1+1 Redundant 2600W 80 PLUS Platinum Power Supply</td>
<td>DDR5 4800/4400 RDIMM/3DS RDIMM</td>
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**Rack Servers**

**Specifications**

- **RS520A-E12-RS24U**
  - **Motherboard**: K14PA-U24
  - **Processor**: 1 x Socket SPF, 64-244W (AMD EPYC 9004 Series Processor [up to 400W])
  - **Chipset**: AMD B550
  - **Memory**: 2 x DDR4, 16GB (2400MHz) DDR4 2400MHz (Unbuffered)
    - *SDDC support for AMD schedule*
  - **VGA**: N/A
  - **Power Supply**: 1 x Redundant 1200W, 80 PLUS Titanium Power Supply
    - *RAID card is required to support SAS hard drives
    - *NIMD card is required to support SAS base drives*
  - **Optical Drive**: N/A
  - **Rear I/O Ports**: 2 x 1GbE or 10GbE LAN ports, 1 x USB 3.2 Gen1 port, 1 x COM port
  - **Network**: 2 x 10GbE LAN ports
  - **Motherboard**: K14PA-U24
  - **Processor**: 1 x Socket SPF, 64-244W (AMD EPYC 9004 Series Processor [up to 400W])
  - **Chipset**: AMD B550
  - **Memory**: 2 x DDR4, 16GB (2400MHz) DDR4 2400MHz (Unbuffered)
    - *SDDC support for AMD schedule*
  - **VGA**: N/A
  - **Power Supply**: 1 x Redundant 1200W, 80 PLUS Titanium Power Supply
    - *RAID card is required to support SAS hard drives
    - *NIMD card is required to support SAS base drives*
  - **Optical Drive**: N/A
  - **Rear I/O Ports**: 2 x 1GbE or 10GbE LAN ports, 1 x USB 3.2 Gen1 port, 1 x COM port
  - **Network**: 2 x 10GbE LAN ports

**RS520A-E12-RS12U**

**ESC8000A-E12**

**Specifications**

- **Motherboard**: K14PA-U24
  - **Processor**: 2 x Socket SPF, 64-244W (AMD EPYC 9004 Series Processor [up to 400W])
  - **Chipset**: AMD B550
  - **Memory**: 2 x DDR4, 16GB (2400MHz) DDR4 2400MHz (Unbuffered)
    - *SDDC support for AMD schedule*
  - **VGA**: N/A
  - **Power Supply**: 2 x Redundant 3000W, 80 PLUS Titanium Power Supply
    - *RAID card is required to support SAS hard drives
    - *NIMD card is required to support SAS base drives*
  - **Optical Drive**: N/A
  - **Rear I/O Ports**: 2 x 1GbE or 10GbE LAN ports, 1 x USB 3.2 Gen1 port, 1 x COM port
  - **Network**: 2 x 10GbE LAN ports

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Specifications


**Rack Servers**

**ESC8000A-E12P**

- **Motherboard**: 419FG-D16
- **Processors**: 2 x Socket (SPG 6468) AMD EPYC 9004 Series Processors (up to 400W)
- **Chipset**: System on Chip (SoC)
- **Memory**: 24 x 2.5" SATA/SAS/SAS*/NVMe/SATA*/SAS, Max. 256 GB, LP-DIMM 260-pin, 1 x 2.5" SSD SATA (up to 128 GB)
- **Hard Drives**: 8 x 3.5" Hot-Swap Drive Bays
- **Power Supply**: 2+1 Redundant 30000W/2600W 80 PLUS Titanium Power Supply
- **Net Weight (kg)**: 62
- **Gross Weight (kg)**: 89

**ESC4000A-E12**

- **Motherboard**: K14FS-D12
- **Processors**: 1 x Socket (SPG 6468) AMD EPYC 9004 Series Processors (up to 400W)
- **Chipset**: System on Chip (SoC)
- **Memory**: 24 x 2.5" SATA/SAS/SAS*/NVMe/SATA*/SAS, Max. 256 GB, LP-DIMM 260-pin, 1 x 2.5" SSD SATA (up to 128 GB)
- **Hard Drives**: 8 x 3.5" Hot-Swap Drive Bays
- **Power Supply**: 1+1 Redundant 26000W 80 PLUS Titanium Power Supply
- **Net Weight (kg)**: 34.8
- **Gross Weight (kg)**: 54.4

**Specifications**

**Power Supply**

- **ESC8000A-E12P**: 1100W; 80+ Titanium Power Supply
- **ESC4000A-E12**: 1100W; 80+ Titanium Power Supply

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

**RS700-E11-RS12U**

- **Motherboard**: ASUS ROG STRIX B560-F Gaming
- **Processor**: 2 x Socket F LGA 6704 4th Gen Intel® Xeon® Scalable Processors Family up to 3.2 GHz
- **Chipset**: Intel® C741 Chipset
- **Memory**: 12 x 3.5" Hot-Swap drive bays
- **Storage Bays**: 4 x PCIe x16 slot (Gen5 x16 link, FHHL)
- **Expansion Slots**: 1 x 10GbE or 4 x 1GbE LAN ports
- **Networking**: 1 x Management port
- **Audio**: 1 x 10GbE or 10GbE LAN ports
- **Video**: 1 x management port
- **Power Supply**: 4+1 Redundant 3000W 54V 80 PLUS Titanium
- **Gross Weight**: 18.93 kg
- **Net Weight**: 13.93 kg

**RS700-E11-RS4U**

- **Motherboard**: ASUS ROG STRIX B560-F Gaming
- **Processor**: 2 x Socket F LGA 6704 4th Gen Intel® Xeon® Scalable Processors Family up to 3.2 GHz
- **Chipset**: Intel® C741 Chipset
- **Memory**: 12 x 3.5" Hot-Swap drive bays
- **Storage Bays**: 4 x PCIe x16 slot (Gen5 x16 link, FHHL)
- **Expansion Slots**: 1 x 10GbE or 4 x 1GbE LAN ports
- **Networking**: 1 x Management port
- **Audio**: 1 x 10GbE or 10GbE LAN ports
- **Video**: 1 x management port
- **Power Supply**: 4+1 Redundant 3000W 54V 80 PLUS Titanium
- **Gross Weight**: 18.93 kg
- **Net Weight**: 13.93 kg

**ESC6N-E11**

- **Motherboard**: ASUS ROG STRIX B560-F Gaming
- **Processor**: 2 x Socket F LGA 6704 4th Gen Intel® Xeon® Scalable Processors Family up to 3.2 GHz
- **Chipset**: Intel® C741 Chipset
- **Memory**: 12 x 3.5" Hot-Swap drive bays
- **Storage Bays**: 4 x PCIe x16 slot (Gen5 x16 link, FHHL)
- **Expansion Slots**: 1 x 10GbE or 4 x 1GbE LAN ports
- **Networking**: 1 x Management port
- **Audio**: 1 x 10GbE or 10GbE LAN ports
- **Video**: 1 x management port
- **Power Supply**: 4+1 Redundant 3000W 54V 80 PLUS Titanium
- **Gross Weight**: 18.93 kg
- **Net Weight**: 13.93 kg

**ESC8000-E11**

- **Motherboard**: ASUS ROG STRIX B560-F Gaming
- **Processor**: 2 x Socket F LGA 6704 4th Gen Intel® Xeon® Scalable Processors Family up to 3.2 GHz
- **Chipset**: Intel® C741 Chipset
- **Memory**: 12 x 3.5" Hot-Swap drive bays
- **Storage Bays**: 4 x PCIe x16 slot (Gen5 x16 link, FHHL)
- **Expansion Slots**: 1 x 10GbE or 4 x 1GbE LAN ports
- **Networking**: 1 x Management port
- **Audio**: 1 x 10GbE or 10GbE LAN ports
- **Video**: 1 x management port
- **Power Supply**: 4+1 Redundant 3000W 54V 80 PLUS Titanium
- **Gross Weight**: 18.93 kg
- **Net Weight**: 13.93 kg

**ESC8000-E11P**

- **Motherboard**: ASUS ROG STRIX B560-F Gaming
- **Processor**: 2 x Socket F LGA 6704 4th Gen Intel® Xeon® Scalable Processors Family up to 3.2 GHz
- **Chipset**: Intel® C741 Chipset
- **Memory**: 12 x 3.5" Hot-Swap drive bays
- **Storage Bays**: 4 x PCIe x16 slot (Gen5 x16 link, FHHL)
- **Expansion Slots**: 1 x 10GbE or 4 x 1GbE LAN ports
- **Networking**: 1 x Management port
- **Audio**: 1 x 10GbE or 10GbE LAN ports
- **Video**: 1 x management port
- **Power Supply**: 4+1 Redundant 3000W 54V 80 PLUS Titanium
- **Gross Weight**: 18.93 kg
- **Net Weight**: 13.93 kg

**ESC4000-E11**

- **Motherboard**: ASUS ROG STRIX B560-F Gaming
- **Processor**: 2 x Socket F LGA 6704 4th Gen Intel® Xeon® Scalable Processors Family up to 3.2 GHz
- **Chipset**: Intel® C741 Chipset
- **Memory**: 12 x 3.5" Hot-Swap drive bays
- **Storage Bays**: 4 x PCIe x16 slot (Gen5 x16 link, FHHL)
- **Expansion Slots**: 1 x 10GbE or 4 x 1GbE LAN ports
- **Networking**: 1 x Management port
- **Audio**: 1 x 10GbE or 10GbE LAN ports
- **Video**: 1 x management port
- **Power Supply**: 4+1 Redundant 3000W 54V 80 PLUS Titanium
- **Gross Weight**: 18.93 kg
- **Net Weight**: 13.93 kg

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