

THAL IN

DATA CENTER SOLUTIONS

Mission

ASUS is part of the global RE100 initiative, and strives for 100% renewable energy for all that we do. We're building on that ambition with our latest data center innovations, spearheading digital transformation across diverse applications from telecoms and finance to transportation and mission-critical medical systems.



EMBRACE THE INCREDIBLE FUTURE WITH **ASUS DATA CENTER SOLUTIONS**

ASUS stands at the forefront of the AI revolution. With seamlessly integrated solutions tailored for enterprises, we're here to guide you on your Al journey with confidence, innovation and endless possibilities.

EXTENSIVE **IN-HOUSE DESIGN CAPABILITIES**

ASUS has substantial resources on tap to respond quickly to fulfill almost any customization requirement, employing top-tier components, fostering strong ecosystem partnerships, implementing feature -rich designs and utilizing superior in-house design expertise for tailored solutions.

WORLD-CLASS CUSTOMIZATION ABILITY

ASUS retains a dedicated global R&D team refining servers in 113 countries through 70+ branches, supported by 1,400+ customer assistance centers. Our talent pool includes hardware, thermal, testing engineers, and software specialists, ensuring top-quality products worldwide.

TCO-OPTIMIZED DESIGNS

ASUS is dedicated to reducing the total cost of ownership (TCO) to business, through more environmentally sustainable and higher-performance designs. In 2020 alone, ASUS received 69,965 green certifications from leading global organizations.



1995 OEM/ODM

Server Business

2020

Data Center

Solutions

Joined RedHat technology partnership

2019 Joined Open Compute Project

2020 Joined Ubuntu technology partnership 2021 Launched BMC solution – ASMB10-iKVM First delivery to EEMEA cloud-service provider Jointly developed 5G edge server with 5G provider Acquired MLCommons membership 2022 World records on MLPerf training and inference

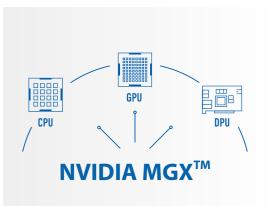
Milestone

- 1995 Tier 1 OEM/ODM
- 2000 Data center 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-iKVM
 - Joined VMware technology partnership
- 2012 Released supercomputing, big data and storage server solutions
 - Launched BMC solution ASMB7- iKVM
- 2014 Achieved Green500 Top 1 with ESC4000-G2S
 - Launched ASUS System Web-based Management (ASWM)
 - Launched BMC solution ASMB8-iKVM
- 2016 Released GPU servers for deep learning, AI and VDI
- 2017 Won 2017 Taiwan Excellence Award for server products
 - Launched data center-level management utility ASUS Control Center
 - Performance tuning and No. 1 performance record in 2P solution
 - Launched BMC solution ASMB9-iKVM
 - Joined Microsoft technology partnership
- 2018 First delivery of server products to medical provider
 - Ranked Top 20 in Taiwania 2 and ranked Top 10 in Green500
- 2023 Won project for FORERUNNER 1 supercomputer to accelerate AI 2.0 era

Elevating Al Success with NVIDIA MGXTM Solutions



Make ASUS Your AI Supercomputing Partner



ASUS leads the AI revolution, powered by our partnership with NVIDIA®, a global AI computing leader. Leveraging NVIDIA's groundbreaking technology, we maximize GPU acceleration, simplifying complex AI tasks. From AI data centers to seamless enterprise solutions, we're innovating at every step. Engineered with an innovative modular architecture, ASUS NVIDIA MGX[™] servers offer unparalleled flexibility and scalability to accommodate various server configurations, significantly enhancing AI-driven data centers, HPC and Omniverse applications with game-changing performance and memory capabilities.



Ultimate Flexibility

MGX, an open, flexible and future compatible reference design provides a single, future-compatible architecture. Thanks to the modular architecture, offering 160 configurations, clients can tailor the AI solution to precise needs. MGX provides a new standard for modular server design by improving ROI and reducing time to market.



Toolless Design

ASUS offers an exclusive toolless M.2 design that ensures seamless operation with its screwless design featuring a latchand-lock mechanism, allowing for quick installation in just three seconds, while also enabling easy dismantling of the fan bar either individually or as a whole group. This promotes effortless troubleshooting, ultimately streamlining maintenance tasks.



Easy Maintenance

The middle-plane board design facilitates easy maintenance by eliminating the need to remove fans or cables and providing clear visibility of each cable's location, thus obviating the need to dismantle the fan bar. Unlike traditional maintenance methods, which often entail disassembling numerous structural parts before repair, the middleplane design streamlines the process, resulting in reduced power-cable usage.



96GB 4 x U.2 (by BF3 or Raid Card)



ESC NM1-E1

2U Single Grace Hopper CPU+GPU superchip MGX system

СРИ	NVIDIA GH200 Grace Hopper 96GB Superchip
M.2	2 x Gen5 x4 (22110)
ВМС	DC-SCM 2.0 module (Dual flash back-up)
Cooling	Air Cooled

ESC NM2-E1

2U Dual Grace Hopper CPU+GPU superchip MGX system

CPU	2 x NVIDIA GH200 Grace Hopper 144GB Superchip
M.2	2 x Gen5 x4 (22110)
BMC	DC-SCM 2.0 module (Dual flash back-up)
Cooling	Air Cooled

HPC Data Center Solutions with 5th Gen Intel Xeon Scalable Processors

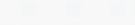


ASUS meets global data center demands with accelerated computing by integrating 5th Gen Intel[®] Xeon[®] processors to provide a diverse array of workload-optimized servers and motherboards. Committed to AI technology growth, ASUS delivers quality server solutions for a sustainable future.



Superior Performance

- Supports the highestperformance 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



Boosted Performance

21% average performance gain at the same TDP as 4th Gen Intel® Xeon® processors¹

\square	
	0
	0
	0

Scalable Storage Solutions

- Unlocks SSD RAID performance with SupremeRAID™ technology, with support for up to 24 NVMe
- More scalable options in middle and rear bays



Comprehensive Cooling Solutions

- New HDD tray and independent airflow tunnel design deliver energyefficient performance
- Immersion and direct-tochip (D2C) liquid-cooling solutions for improved PUE and reduced operational costs



Multiple GPU and FPGA Support

- Flexible design to configure PCIe 5.0 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 benchmark

Faster AI Deployment



better AI training and inference performance vs. 3rd Gen Intel® Xeon® processor⁴



Supercharged Memory Speed

Up to 16%

memory bandwidth improvement² and

2.7X increased last-level cache³ vs. 4th Gen

Intel[®] Xeon processors

- 2. See G12 at https://www.intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary. 4. Based on Intel internal modelling as of December 2023.
- . See G11 at https://www.intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary
- Based on performance gains of 4.4x to 14.2x for training (ResNet50v1.5, BERT-Large, SSD-ResNet34, RNN-T, MaskRCNN, and DLRM) and 2.9x to 14x for inference (ResNet50v1.5, BERT-Large, SSD-ResNet34, RNN-T (BF16 only), Resnext101 32x16d, MaskRCNN (BF16 only), DistilBERT) compared to 3rd Gen Intel® Xeon® processor. See A15-A16 at https://www.intel.com/ processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.



RS720Q-E11-RS8U

Massive computing performance for diverse AI workloads

СРИ	4 th Gen Intel [®] Xeon [®] Scalable processors 5 th Gen Intel [®] Xeon [®] Scalable Processor Family (Up to 350W) (Air cool up to 270W liquid cool up to 350W)
Memory Type	Per node: 16 x DIMM slots 4th: DDR5 4800 MHz RDIMM/3DS RDIMM (1DPC) 5th: DDR5 5600/4800 MHz RDIMM/3DS RDIMM (1DPC) Maximum 4096GB
Drive bays	8
Additional OS Drive	2
Networking	Per Node: 2 x Intel X710-AT2 Gigabit LAN Controller 1 x Management Port

ESC N8-E11

Powerful AI server reduces data-center PUE

CPU	4 th Gen Intel [®] Xeon [®] Scalable Processor Family (Up to 350W) 5 th Gen Intel [®] Xeon [®] Scalable Processor Family (Up to 350W)			
Memory Type	32 x DIMM, DDR5 4400 RDIMM/ 3DS RDIMM			
Drive bays	10			
Networking	2 x 10 Gigabit LAN ports (Intel X710-AT2 Controller) 1 x Management Port			

Empowering Data Center Sustainability AMD EPYC[™] 9004 Solutions





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 CPU 2017 benchmarks on SPEC.org. The results demonstrate that ASUS leadership with the new AMD EPYC processors, delivering outstanding performance for the server industry.

* ASUS RS720A-E12 AND RS520A-E12 servers are tested the highest scores on SPEC CPU 2017 multiple benchmarks. All results can be verified on November 8, 2023 at SPEC.org

Custom-focused ASUS Design

ASUS servers are designed with our customers in mind, offering flexibility to enable easy scale-up of configurations to meet increasing data-center workloads.



CPU-balanced Architecture

- Offers reliable, optimal CPU performance efficiency between CPUs
- Extends I/O availability for more computing capability



Scalable Storage **Solutions**

- Unlock SSD RAID performance with SupremeRAID[™] Technology, with support for up to 24 NVMe
- More scalable options in middle and rear bays



Comprehensive **Cooling Solutions**

- New HDD tray and independent airflow tunnel design deliver energyefficient performance
- Immersion and direct-tochip (D2C) liquid-cooling solutions for improved PUE and reduced operational costs



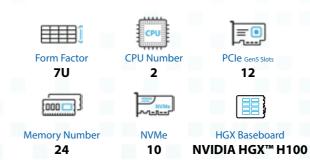
Multiple GPU and **FPGA Support**

- Flexible design to configure PCle 5.0 x16 slots for specific workloads
- GPU servers designed with space optimization for liquidcooling solutions
- · Stand-out AI training and inference performance proved by MLPerf benchmarks

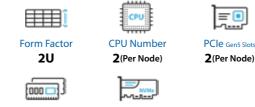




8









1-		<u></u>
A DESCRIPTION OF A DESC		
		100 March 100
	·n	
aa aa aa ahaa ahaa ahaa ahaa ahaa dhadaddaddaddaddaddaddaddaddaddaddaddadd	39	
and manual and a ball a ba		

RS720QA-E12-RS8U

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

СРО	AMD EPYC [™] 9004 Series Processor
Chipset	SoC
Memory Type	Per node: 24 x DIMM slots DDR5 up to 4800 RDIMM/ 3DS RDIMM Maximum 6TB
Drive bays	8
Additional OS Drive	2
Networking	Per node: 2 x 10GbE LAN 1 x Management port

ESC N8A-E12

NVIDIA HGX H100 eight-GPU server with dual AMD EPYC[™] 9004 processors, designed for generative AI and HPC

СРИ	2 x Socket SP5 (LGA 6096) AMD EPYC™ 9004 series processors (Up to 400W)
Memory Type	24 x DIMM slots, DDR5 4800/4400 RDIMM/ 3DS RDIMM(1DPC)
Drive bays	10 x 2.5″, 2 x M.2
Networking	2 x 10Gbe RJ45 port 1 x Management port

NO.1 BENCHMARK SPEC.CPU

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.



 1772^{+} All results can be verified on SPEC.org on March, 2024

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

TOP RECORDS **MLPerf**

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.

*MLCommons is an open engineering consortium, built on a philosophy of open collaboration and accelerate machine learning innovation

Performance Boost

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.

Top records on MLPerf training and inference ESC8000A-E12 **ESC N8-E11**

ASUS 1st NVIDIA HGX Architecture: The Best Choice for Heavy AI Workloads

12 PCIe GPU Server NVIDIA HGX[™] H100



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.

ESC4000A-E12

This AMD EPYC[™] 9004 2U GPU is a single-processor powerhouse server with support for four double-slot GPUs for AI-related workloads

8 PCIe GPU Server NVIDIA L4 x8



MLPerf Training & Inference

MLPerf

The AMD EPYC[™] 9004 dual-processor 4U GPU server for HPC and Al workloads



ESC4000-E11

Offers a wide array of graphics accelerators, plus support for the NVIDIA NVLink high-speed GPU interconnect, to unleash maximum Al performance



ASUS INNOVATION

SERVER SOFTWARE

ASUS Control Center

Designed for Enterprise

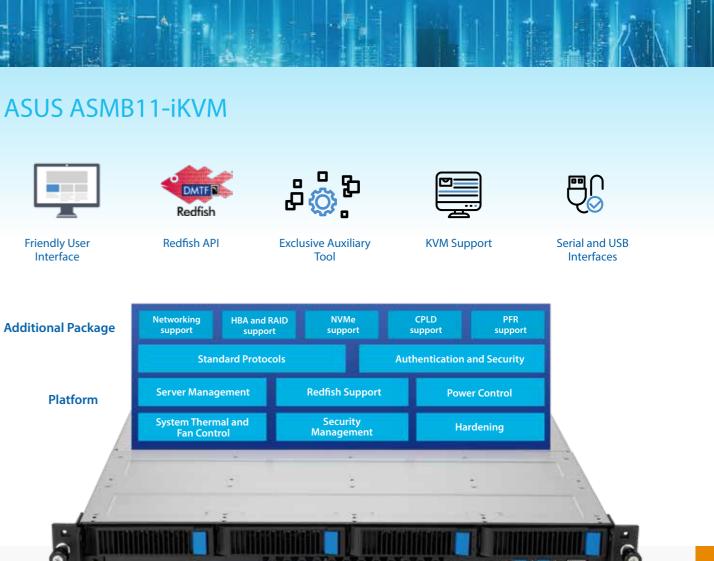
Software

Inventory

ASUS Control Center (ACC) is an enterprise-grade 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 is a one-stop portal for IT management, and has been embraced by industries and businesses globally to minimize administration and maximize uptime

ASUS ASMB11-iKVM





What does ASMB11-iKVM offer?

ASMB11-iKVM is optimized firmware-management tool for server and data center operations equipped with IPMI and Redfish Protocols to access and monitor all hardware status, sensor, and update. Out-of-band management significantly reduces redundant IT operations and deployments remotely. Specifically, ASMB11-iKVM connects BIOS, BMC, server information and key parts collectively, offers multiple routes to satisfy customer preferences – making it quick and easy to improve IT operational efficiency.



BIOS Flash

Update

Medical



Hardware

Inventory

Enterprise

Manufacturing

Real-time System

Monitor





Software Dispatch

Task



Power and

Security Control



i Hardware Utilization Record



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).

Centralized

Single console-style interfaces allows IT managers to manage and configure devices collectively, from a central location.



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



ASUS 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.

LIQUID-COOLING SOLUTIONS

Unparalleled cooling performance for the modern data center

A comprehensive liquid-cooling solution

Deploying high-TDP CPU and GPU servers for demanding workloads poses challenges in building energy-efficient data centers. Liquidcooling solutions offer optimized space design, reduced power-usage effectiveness (PUE) and lower operating expenditures (OpEx), addressing the need to balance power consumption with green energy initiatives. By working with our partners, we're able to deliver a total solution — from liquid-cooling modules to ready-to-go servers, and even data center floor plans and suggested infrastructure.

The top four reasons to choose liquid cooling

5	1

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.

Reduce long-term OpEX

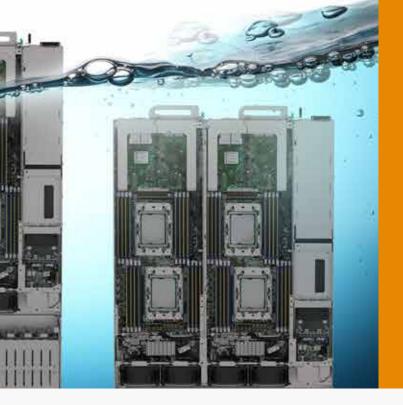
A data center with liquid cooling is customarily designed for heat recirculation. The hot coolant exiting a server is directed though a heat exchanger system that recycles heat into more energy, further reducing OpEx for utilities. Thanks to this system, the initial cost of most direct liquid-cooling 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 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 (D2C) cooling is a quick, simple option that's based on existing infrastructure. D2C can be deployed quickly, and lower power-usage effectiveness (PUE). 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 highlyeffective solution from ASUS. This technique offers more advantages on PUE and encompasses higher-density servers. However, it also demands more space, and may require retooling 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.

ASUS Establishes National-Level Supercomputing Center, FORERUNNER 1



Project background

The National Applied Research Laboratories (NARLabs) is working on upgrading and building the nation's most advanced supercomputer center, offering fast computing power, ample storage, and secure networking. It's Taiwan's largest domestic data and model market, featuring an AI cloud computing platform. This platform delivers real-time and convenient computing services to industries, universities, and research institutes.

The challenge

ASUS won the FORERUNNER 1 project to be responsible for this ambitious project, but starting from scratch presented numerous challenges. FORERUNNER 1 is designed as a replacement for TAIWANIA 1, and is intended to provide the resources needed by all walks of life for supercomputing workloads. These include research topics such as climate prediction, astrophysics simulation, molecular model simulation, engineering design and simulation - and many more applications besides.

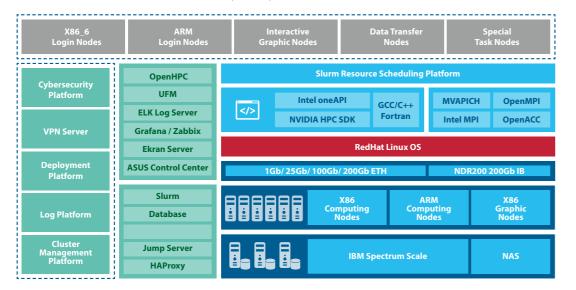
Our solution

ASUS managed the construction of the supercomputing infrastructure, which involved data center construction, cabinet installation, testing and onboarding. Rigorous testing ensured optimal performance. Additionally, ASUS meticulously designed the HPC portal architecture. To create a greener FORERUNNER 1 supercomputing system, ASUS refined the liquid-cooling setup, achieving a remarkable PUE of 1.17, surpassing the 1.28 acceptance standard. Despite the hurdles, the project reached completion within a mere four months.

Why ASUS?

• ASUS has comprehensive technological capabilities from hardware servers to software platforms and shows how it is actively exploring and leveraging AI and computing power.

• The dedication and hard work of the ASUS team always response in real-time to provide valuable insights and support and ensure the successful realization of Taiwan's most advanced supercomputer center.



RS720QN-E11-RS24U

NVIDIA® Grace Superchip and

NVLink®-C2C technology

Recommend model

ESC4000-E11 2U 4 GPU dual slots server Xeon Scalable processors 16 DIMMs, 2 PCIe 5.0 slots and 6 x storage

powered by 5th Gen intel

ARM SystemReady-certified

RS723Q-E11-RS24

2U4N high-density server powered by 5th Gen Intel Xeon Scalable processors 16 DIMMs, 3 PCIe 5.0 slots, 8 NVMe, and 1 x Management Port per node

Multinational IT Center **Construction: Tailored Solutions** for Global Retail Group

Project background

Amidst the dynamic landscape of multinational retail, a leading company recognized the imperative to enhance its IT infrastructure to sustain expanding operations and deliver flawless customer service. Following thorough deliberation, the company selected ASUS as its reliable ally for this significant initiative.

The challenge

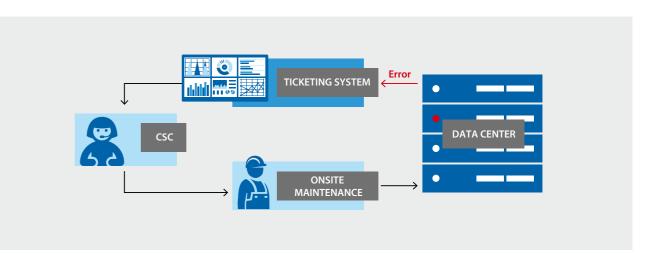
The client utilized its own robust management software to oversee the operations of its global chain-store systems. Seeking a data center solution, the client aimed for seamless integration with its existing software, avoiding the need for an additional layer of management interface.

Our solution

The choice to go with ASUS over industry leaders such as HPE and Dell stemmed from the adaptability of ASUS, allowing the company to connect the client's existing management software with ASUS servers through an API. This integration ensured that customerservice logs and other crucial information could be seamlessly shared, enhancing operational efficiency.

Why ASUS?

- ASUS stood out with its flexibility in offering customized solution based on clients requirement.
- specific requirements. Through collaborative problem-solving, they created a robust and scalable infrastructure that would support the client's growth for years to come.
- Despite the intricacies involved, the deployment of the new IT infrastructure was completed in an impressively short span of just a few months. The agility ASUS and prompt response to our client's needs played a pivotal role in this speedy implementation.



Recommend model



RS7210-E11-RS8U

 2U4N high-density server powered by 5th Gen Intel Xeon Scalable processors • 8 DIMMs, 2 PCIe 5.0 slots, 8 NVMe, and 1 x management port per node



• The ASUS team worked closely with the company's IT department to address design complexities and tailor the solution to their

SPECIFICATIONS

	Arm Server			Rack Server
Sample	NEW ESC NM1-E1	Coming Soon ESC NM2-E1	RS720QN-E11-RS24U	RS720A-E12-RS24U
Processor	NVIDIA GH200 Grace Hopper 96GB Superchip	2 x NVIDIA GH200 Grace Hopper 144GB Superchip	Per node: 1* NVIDIA Grace CPU	2 x Socket SP5 (LGA 6096) AMD EPYC [™] 9004 Series Processors (Up to 400W)
Chipset	SoC(System on Chip)	SoC(System on Chip)	SoC(System on Chip)	System on Chip (SoC)
Memory	LPDDR5X 480GB co-packaged	2 x LPDDR5X 480GB co-packaged	LPDDR5X 480GB co-packaged	24 x DIMM slots DDR5 4800/4400 RDIMM/ 3DS RDIMM(1DPC)
				Maximum 6144GB
GA	N/A	N/A	N/A	Aspeed AST2600 64MB
Graphic	Hopper GPU 96GB co-packaged	Hopper GPU 144GB co-packaged	N/A	Up to 6 single-slot or 3 double- slot GPU cards
Expansion Slots	Up to 3 PCIe Gen5 slots	Up to 5 PCle Gen5 slots 3 x PCle Gen5 x16 (FHFL) 2 x PCle Gen5 x8 (FHFL)	Per node: 2 x PCIe Gen5 x16 slots (LPHL) + 1* OCP3.0	Up to 9 PCIe Gen5 slots + 1 x internal RAID slot 6 x PCIe Gen5 x8 or 3 x PCIe Gen5 x16 (FHFL) 2 x PCIe Gen5 x8 or 1 x PCIe Gen5 x16 or 1 x OCP3.0 (FHFL) 1 x PCIe Gen5 x16 (LPHL)
Storage Bays	4 x 2.5" Front Hot-Swap drive bays (NVMe Only) 2 x M.2 (Up to 22110, NVMe only)	4 x 2.5" Front Hot-Swap drive bays (NVMe Only) 2 x M.2 (Up to 22110, NVMe only)	Per Node: 6 x 2.5" Front hot-swap drive bays (Up to 6x NVMe) 2 x M.2 (Up to 22110, Gen5 x4 link)	1 x PCle Gen4 x8 (LP, internal) 24 x 2.5" Front Hot-swap drive bays (Up to 16 x NVMe + 8 x NVMe/ SATA/SAS*) (with 2 switch boards) "GPU SKU do not support OCP3.0. "PIKE/RAID card is required to support SAS hard drives
Networking	1 x Management Port	1 x Management Port	Per Node: 1 x Gigabit LAN port 1 x Management Port	4 x 1GbE or 2 x 10GbE LAN port 1 x Management port
	2 x USB3.2 Gen1 ports,	2 x USB3.2 Gen1 ports	1 x Power Button /w LED	2 x USB 3.2 Gen1 ports
Front I/O ports	1 x Power Button /w LED 1 x UID Button /w LED	1 x Power Button /w LED 1 x UID Button /w	1 x UID /w LED	1 x Power Botton
Rear I/O ports	2 x USB3.2 Gen1 ports 1x Mgmt LAN 1 x DP port 1 x Power Button /w LED	2 x USB3.2 Gen1 ports 1x Mgmt LAN 1 x DP port 1 x Power Button /w LED	1 x USB3.1 Gen1 ports 1 x miniDP port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x VGA port 1 x Management port
Security Options	1 x UID Button /w LED	1 x UID Button /w LED	N/A	Optional TPM module
Management Solution		N/A	ASUS ASMB11-iKVM (on-board)	Optional PFR module ASUS Control Center
management solution				ASUS ASMB11-iKVM (on-board)
Dimension	900mm x 439.5mm x 87.5mm 35.43"x13.19"x2.63"	900mm x 439.5mm x 87.5mm 35.43"x13.19"x2.63"	800mm x 444mm x 88.15mm (2U) 31.5"x 17.48"x 3.46"	840mm x 449mm x 88.1mm (2U) 33.07" x 17.68" x 3.47"
Power Supply (following different configuration by region)	1+1 Redundant 2000W 80 PLUS Titanium Power Supply	1+1 Redundant 3200W 80 PLUS Titanium Power Supply	2+0 3000W or 3600W (1+1) redundant Titanium power supplies	1+1 Redundant 2600W/1600W 80 PLUS Titanium Power Supply 1+1 Redundant 2000W/1600W 80 PLUS Platinum Power Supply







RS700A-E12-RS12U

2 x Socket SP5 (LGA 6096) AMD EPYC[™] 9004 Series Processors (Up to 400W)

System on Chip (SoC)

24 x DIMM slots DDR5 4800/4400 RDIMM/ 3DS RDIMM(1DPC) Maximum 6144GB

Aspeed AST2600 64MB

	Up to 2 single-slot or 1 double- slot GPU cards
5	Up to 3 x PCle Gen5 slots + 1 x internal RAID slot 1 x PCle Gen5 x16 1 x PCle Gen5 x16 or OCP3.0 (FHFL) 1 x PCle Gen5 x16 (LP)

1 x PCIe Gen4 x8 (LP, internal)

12 x 3.5"" Front Hot-Swap drive

bays ear Hot-Swap drive bays (Up to 12 x NVMe/SATA/SAS*)) Support 2 x NVMe** *PIKE/ RAID card is required to support Card is required to support SAS hard drives

> 4 x 1GbE or 2 x 10GbE LAN port 1 x Management port

> > N/A

2 x USB 3.2 Gen1 ports 1 x VGA port 1 x Management port

Optional TPM module Optional PFR module" ASUS Control Center ASUS ASMB11-iKVM (on-board)

842.5mm x 449mm x 43.85mm 449mm x 88.1mm (2U) (1U) 33.17" x 17.68" x 1.73"

1+1 Redundant 2600W/1600W Titanium Power Supply 80 PLUS Titanium Power Supply 1+1 Redundant 2000W/1600W Platinum Power Supply 80 PLUS Platinum Power Supply



RS700A-E12-RS4U

2 x Socket SP5 (LGA 6096) AMD EPYC[™] 9004 Series Processors (Up to 400W)

System on Chip (SoC)

24 x DIMM slots DDR5 4800/4400 RDIMM/ 3DS RDIMM(1DPC) Maximum 6144GB

Aspeed AST2600 64MB

Up to 2 single-slot or 1 doubleslot GPU cards

Up to 3 x PCIe Gen5 slots + 1 x internal RAID slot 1 x PCle Gen5 x16 1 x PCle Gen5 x16 or OCP3.0 (FHFL) 1 x PCle Gen5 x16 (LP)

1 x PCle Gen4 x8 (LP, internal)

4 x 3.5"" Front Hot-Swap drive bays (Up to 4 x NVMe/SATA/SAS*)

*PIKE/ RAID card is required to support SAS hard drives

4 x 1GbE or 2 x 10GbE LAN port 1 x Management port

2 x USB 3.2 Gen1 ports 1 x VGA

2 x USB 3.2 Gen1 ports 1 x VGA port 1 x Management port

Optional TPM module

Optional PFR module ASUS Control Center

ASUS ASMB11-iKVM (on-board)

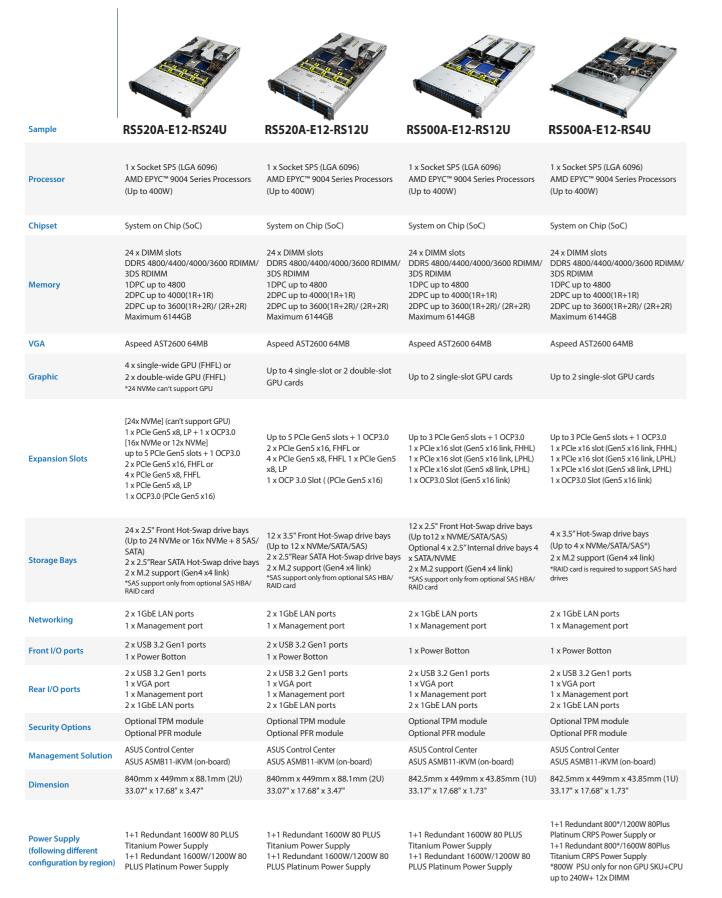
842.5mm x 449mm x 43.85mm (1U)

33.17" x 17.68" x 1.73"

1+1 Redundant 2600W/1600W 80 PLUS Titanium Power Supply 1+1 Redundant 2000W/1600W 80 PLUS Platinum Power Supply

SPECIFICATIONS

Rack Server







Sample	RS720-E11-RS24U	RS720-E11-RS12U	RS700-E11-RS12U	RS700-E11-RS4U
Processor	2 x Socket E (LGA4677) 4th Gen Intel® Xeon® Scalable processors 5th Gen Intel® Xeon® Scalable processors (Up to 350w)	2 x Socket E (LGA4677) 4th Gen Intel® Xeon® Scalable processors 5th Gen Intel® Xeon® Scalable processors (Up to 350w)	2 x Socket E (LGA4677) 4th Gen Intel® Xeon® Scalable processors 5th Gen Intel® Xeon® Scalable processors (Up to 350w)	2 x Socket E (LGA4677) 4th Gen Intel® Xeon® Scalable processors 5th Gen Intel® Xeon® Scalable processors (Up to 350w)
Chipset	Intel® C741	Intel® C741	Intel® C741	Intel® C741
Memory	32 x DIMM slots 4th: 4800 MHz (1DPC)/ 4400 MHz (2DPC) 5th: 5600/4800 MHz (1DPC)/4400(2DPC) Maximum 4 TB	32 x DIMM slots 4th: 4800 MHz (1DPC)/ 4400 MHz (2DPC) 5th: 5600/4800 MHz (1DPC)/4400(2DPC) Maximum 4 TB	32 x DIMM slots 4th: 4800 MHz (1DPC)/ 4400 MHz (2DPC) 5th: 5600/4800 MHz (1DPC)/4400(2DPC) Maximum 4 TB	32 x DIMM slots 4th: 4800 MHz (1DPC)/ 4400 MHz (2DPC) 5th: 5600/4800 MHz (1DPC)/4400(2DPC) Maximum 4 TB
VGA	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB
Graphic	Up to 2 single-slot or 1 double-slot GPU cards	Up to 8 single-wide GPU or 4 double-wide GPU	Up to 2 single-slot or 1 double- slot GPU cards	Up to 2 single-slot or 1 double- slot GPU cards
Expansion Slots	Up to 4 slots 1 x PCIe Gen5x 16 (FHFL) or 2 x PCIe Gen5x 8(FHHL) 1 x OCP 3.0 1 x PCIe G5 x16 (LP)	Up to 9 slots 6 x PCIe Gen5 x8 or 3 x PCIe Gen5 x16 (FHFL or FHHL) 1 x PCIe Gen5 x16 (FHHL) 1 x OCP 3.0 or PCIe Gen5 x16 (FHHL)* 1 x PCIe Gen5 x16 (LP) *maximum support 3 double-wide GPU if using OCP3.0	Up to 3 x PCIe Gen5 slots + 1 x internal slot 1 x PCIe Gen5 x16 (FHFL) 1 x PCIe Gen5 x16 or OCP3.0 1 x PCIe Gen5 x16 (LP) 1 x PCIe Gen5 x8 (LP, internal)	Up to 3 x PCIe Gen5 slots + 1 x internal slot 1 x PCIe Gen5 x16 (FHFL) 1 x PCIe Gen5 x16 or OCP3.0 1 x PCIe Gen5 x16 (LP) 1 x PCIe Gen5 x8 (LP, internal)
Storage Bays	24 x 2.5"" Front Hot-Swap drive bays (Up to 12x NVMe + 12x NVMe/SATA/ SAS*) *RAID card is required to support SAS hard drives	12 x 3.5" Front Hot-swap drive bays (Up to 8 x NVMe/SATA/SAS* + 4 NVMe/SATA) Optional: 2 x 2.5" Rear Hot-swap Storage Bays (Up to 2x NVMe/SATA) "RAID card is required to support SAS hard drives	12 x 2.5" Front Hot-Swap drive bays Up to 12 x NVMe/SATA/SAS* *RAID card is required to support SAS hard drives	4 x 3.5" Front Hot-Swap drive bays (Up to 4 x NVMe/SATA/SAS*) *RAID card is required to support SAS ha drives
Networking	4 x 1GbE or 2 x 10GbE LAN port 1 x Management port	4 x 1GbE or 2 x 10GbE LAN port 1 x Management port	4 x 1GbE or 2 x 10GbE LAN port 1 x Management port	4 x 1GbE or 2 x 10GbE LAN port 1 x Management port
Front I/O ports	2 x USB 3.2 Gen1 ports 1 x Power Botton	2 x USB 3.2 Gen1 ports 1 x Power Buttom	N/A	2 x USB 3.2 Gen1 ports 1 x VGA port
Rear I/O ports	2 x USB 3.2 Gen1 ports 1 x VGA port 1 x Management port	2 x USB 3.2 Gen1 ports 1 x VGA port 1 x Management port	2 x USB 3.2 Gen1 ports 1 x VGA port 1 x Management port	2 x USB 3.2 Gen1 ports 1 x VGA port 1 x Management port
Security Options	Optional TPM module Optional PFR module	Optional TPM module Optional PFR module	Optional TPM module Optional PFR module	Optional TPM module Optional PFR module
Management Solution	ASUS Control Center ASUS ASMB11-iKVM (on-board)	ASUS Control Center ASUS ASMB11-iKVM (on-board)	ASUS Control Center ASUS ASMB11-iKVM (on-board)	ASUS Control Center ASUS ASMB11-iKVM (on-board)
Dimension	840mm x 449mm x 88.1mm (2U) 33.07" x 17.68" x 3.47"	840mm x 449mm x 88.1mm (2U) 33.07" x 17.68" x 3.47"	842.5mm x 449mm x 43.85mm (1U) 33.17" x 17.68" x 1.73"	842.5mm x 449mm x 43.85mm (1U) 33.17" x 17.68" x 1.73"
Power Supply (following different configuration by region)	1+1 Redundant 2600W/1600W 80 PLUS Titanium Power Supply 1+1 Redundant 2000W/1600W 80 PLUS Platinum Power Supply	1+1 Redundant 2600W/1600W 80 PLUS Titanium Power Supply 1+1 Redundant 2000W/1600W 80 PLUS Platinum Power Supply	1+1 Redundant 1600W/800 80 PLUS Titanium Power Supply 1+1 Redundant 2000W/1600W/ 1200W 80 PLUS Platinum Power Supply	1+1 Redundant 1600W/800 80 PLUS Titanium Power Supply 1+1 Redundant 2000W/1600W/ 1200 80 PLUS Platinum Power Supply



	Rack Server		GPU Server	
Sample	RS300-E12-RS4	RS300-E12-PS4	ESC N8A-E12	ESC8000A-E12
ocessor	1 x Socket V (LGA 1700) Intel Xeon E-2400 processor (Up to 95W)	1 x Socket V (LGA 1700) Intel Xeon E-2400 processor (Up to 95W)	2 x Socket SP5 (LGA 6096) AMD EPYC™ 9004 series processors (Up to 400W)	2 x Socket SP5 (LGA 6096) AMD EPYC™ 9004 Series Processors (Up to 400W)
hipset	Intel® C262	Intel [®] C262	System on Chip (SoC)	System on Chip (SoC)
Nemory	4 x DIMM slots DDR5 4400/4000/3600 ECC/NON- ECC UDIMM Maximum 128GB	4 x DIMM slots DDR5 4400/4000/3600 ECC/NON- ECC UDIMM Maximum 128GB	24 x DIMM slots DDR5 4800/4400 RDIMM/ 3DS RDIMM(1DPC) Maximum 3TB per socket	24 x DIMM slots DDR5 4800/4400 RDIMM/ 3DS RDIMM (2DPC) Maximum 3TB per socket
/GA	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB
aphic	N/A	N/A	NVIDIA® HGX H100 8-GPU	Up to 8 double-slot GPU cards
			baseboard	8x PCle x16 slot (Gen5, FHFL)
				8x PCIe X16 slot (Gen5, FHFL) for dual-slot GPU card SKU-1: Front: 1 x PCIe x8 slot (Gen5 ,LPHL) for HBA/RAID cards Rear: 1 x PCIe x16 slot (Gen5)
Expansion Slots	Up to 3 slots 1 x PCle x16 (Gen5 x16 link) 1 x PCle x8 (Gen5 x8 link)	Up to 3 slots 1 x PCle x16 (Gen5 x16 link) 1 x PCle x8 (Gen5 x8 link)	Up to 12 PCle Gen5 slots [PCle Switch directly] 8 x PCle Gen5 x16 (LPHL) [CPU directly] 2 x PCle Gen5 x16 (FHHL)*+ 2 x PCle Gen5 x8 (FHHL) *Support PCle x16 for DPU	for NIC card Rear: 1 x PCIe x8 slot (Gen5) for NIC card SKU-2: Front: 1 x PCIe x8 slot (Gen5 ,LPHL) for HBA/RAID cards Rear: 1 x PCIe x16 slot (Gen5) for NIC card SKU-3: Front: 1 x PCIe x8 slot (Gen5 ,LPHL) for HBA/RAID cards Rear: 1 x PCIe x16 slot (Gen5) for OCP socket
itorage Bays Networking	4 x 3.5" Hot-Swap HDD Bays (Up to 4 x NVMe/SATA/SAS) *SAS support only from optional SAS HBA/ RAID card *NVMe support only from optional NVMe upgrade kit 2 x 1GbE LAN port(Intel® I210AT) 1 x Management Port	4 x 3.5" Hot-Swap HDD Bays (Up to 4 x NVMe/SATA/SAS) *SAS support only from optional SAS HBA/ RAID card *NVMe support only from optional NVMe upgrade kit 2 x 1GbE LAN port(Intel® I210AT) 1 x Management Port	10 x 2.5" Hot-Swap drive bays (Up to 8 x NVMe + 2 x NVMe/SATA*/ SAS*)2 x M.2 Gen5 x4 *HBA/RAID card is required to support SATA/ SAS hard drives 2 x 10Gbe RJ45 port 1 x Management port	8 x 3.5" Front Hot-Swap drive bays (backplane supports up to 8 x NVMe/ SATA/SAS*) 1 x M.2 support (Gen3 x4 link) "RAID card is required to support SAS hard drives 2 x 1GbE or 10GbE LAN ports 1 x Management port
Front I/O ports	1 x VGA port 2 x USB 3.2 Gen2 ports	1 x VGA port 2 x USB 3.2 Gen2 ports	4 x USB3.2 Gen1 ports 1 x VGA port 2 x 10Gb LAN module	2 x USB 3.2 Gen1 ports
	3 x USB 3.2 Gen 2 ports	3 x USB 3.2 Gen 2 ports	1 x Management port	
ear I/O ports	1 x VGA port 1 x COM port 2 x RJ-45 ports 1 x RJ-45 ports (One for ASMB11- iKVM)	1 x VGA port 1 x COM port 2 x RJ-45 ports 1 x RJ-45 ports (One for ASMB11- iKVM)	N/A	1 x VGA port 1 x COM port 2 x 1GbE or 10 GbE LAN ports 1 x Management port
ecurity Options	N/A	N/A	Optional TPM module Optional PFR module	Optional TPM module Optional PFR module
lanagement Solution	ASUS Control Center ASUS ASMB11-iKVM (Optional)	ASUS Control Center ASUS ASMB11-iKVM (Optional)	ASUS Control Center ASUS ASMB11-iKVM (on-board)	ASUS Control Center ASUS ASMB11-iKVM (on-board)
Dimension	497mm x 439.5mm x 44mm (1U)	497mm x 439.5mm x 44mm (1U)	885mm x 447mm x 306.65mm (7U) 34.84"x17.6"x 12.07"	800mm x 440mm x 174.5mm (4U) 31.5"x 17.32"x 6.87"
Power Supply	1+1 Redundant 450W 80 PLUS	Single 350W 80 PLUS Gold Power	3+3 Redundant 3000W 54V 80 PLUS Titanium Power Supply4+2	2+2 Redundant 3000W/2600W 80 PLUS Titanium Power Supply
(following different configuration by region)	PLATINUM Power Supply	Supply	Redundant 3000W 54V 80 PLUS Titanium Power Supply	2+1 Redundant 30000W/2600W 80 PLUS Titanium Power Supply

For details, please visit our website

All specs are subject to change without any prior notice

Titanium Power Supply

2+1 Redundant 30000W/2600W

80 PLUS Titanium Power Supply

configuration by region)



ESC N8-E11

2 x Socket E (LGA 4677) 4th Gen Intel[®] Xeon[®] Scalable Processor Family (Up to 350W) 5th Gen Intel® Xeon® Scalable Processor Family (Up to 350W)

Intel[®] C741

32 x DIMM slots DDR5 4400 RDIMM/RDIMM 3DS(2DPC) Maximum 4 TB

Aspeed AST2600 64MB

NVIDIA[®] HGX[™] H100

(Gen5 x16 link, FHFL) cards or 8 x PCle x16 k, FHFL) for single-slot	Up to 12 PCle Gen5 slots [PCle Switch directly] 8 x PCle Gen5 x16 (LPHL) [CPU directly]
(Gen5 x16 link, FHHL) Gen5 x16/x8 link, :ket option Gen5 x0/x8 link, LPHL)	2 x PCIe Gen5 x16 (FHHL)*+ 2 x PCIe Gen5 x8 (FHHL) *Support PCIe x16 for DPU

ot-Swap drive bays le/SATA/SAS*+ 2 x 10 x 2.5" Hot-Swap drive bays (Up to 8 x NVMe + 2 x NVMe/SATA/ le/SATA/SAS* + 4 x SAS*)



2 x M.2 Gen5 x4 + 2 x M.2 Gen3 x2

*RAID card is required to support SAS hard

N/A

drives

	Optional TPM module Optional PFR module	Op Op
rd)	ASUS Control Center ASUS ASMB11-iKVM (on-board)	ASI ASI
n (2U)	885mm x 447mm x 306.65mm (7U) 34.84" x 17.6" x 12.07"	800 31.
US	3+3 Redundant 3000W 54V 80 PLUS Titanium Power Supply 4+2 Redundant 3000W 54V 80 PLUS Titanium Power Supply	2+2 80 2+1 80



ESC8000-E11

2 x Socket E (LGA 4677) 4th Intel® Xeon® Processor Scalable Family (Up to 350W) 5th Intel® Xeon® Processor Scalable Family

Intel[®] C741

32x DIMM slots DDR5 5600/4800 RDIMM/ 3DS RDIMM (2DPC) Maximum 4TB per CPU

Aspeed AST2600 64MB

Up to 8 double-slot GPU cards

8x PCIe x16 slot (Gen5, FHFL) for dual-slot GPU card SKU-1: Front: 1 x PCle x8 slot (Gen5 ,LPHL) for HBA/RAID cards Rear: 1 x PCIe x16 slot (Gen5) for NIC card Rear: 1 x PCIe x8 slot (Gen5) for NIC card SKU-2: Front: 1 x PCle x8 slot (Gen5 ,LPHL) for HBA/RAID cards Rear: 1 x PCIe x16 slot (Gen5) for NIC card SKU-3: Front: 1 x PCle x8 slot (Gen5 ,LPHL) for HBA/RAID cards Rear: 1 x PCle x16 slot (Gen5) for OCP socket

8 x 3.5" Front Hot-Swap drive bays (backplane supports up to 8 x NVMe/SATA/SAS*) 1 x M.2 support (Gen3 x4 link) *RAID card is required to support SAS hard drives

2 x 1GbE or 10GbE LAN ports 1 x Management port

2 x USB 3.2 Gen1 ports

1 x VGA port 1 x COM port 2 x 1GbE or 10 GbE LAN ports 1 x Management port

ptional TPM module ptional PFR module

SUS Control Center SUS ASMB11-iKVM (on-board)

00mm x 440mm x 174.5mm (4U) .5"x 17.32"x 6.87"

+2 Redundant 3000W/2600W PLUS Titanium Power Supply 1 Redundant 30000W/2600W 80 PLUS Titanium Power Supply

SPECIFICATIONS

Front: 1 x PCle x 16 slot (Gen5, J.PHL) Rear. 3 x PCle x 16 slot (Gen5, J.PHL) S PClex 16 slot (Gen5, S.PL R) 3 x PCle x 16 slot (Gen5, S.PL R) 3 x PCle x 16 slot (Gen5, S.PL R) 3 x PCle x 16 slot (Gen5, FHFL) 1 x PCle x 16 slot (Gen5, FHFL) 1 x PCle x 16 slot (Gen5, FHFL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x PCle x 16 slot (Gen5 x 16 link, HHL)2 x 15 F F F F F F F F F F F F F F F F F F	(GPU Server		High Density Serve	er
2 x Solder (LGA 4977) 4b. Intel ¹⁴ Xeon ⁴ Processor Scalable Family Per node: 2 x Solder (LGA 4977) Per node					
J & Socket E (GA 407) Stabile Family2 & Socket E (GA 407) Stabile Family2 & Socket E (GA 407) Stabile FamilyProduction Stabile FamilyProduction Stabil	Sample	ESC8000-E11P	ESC4000-E11	RS720QA-E12-RS8U	RS720Q-E11-RS8U
Intel C741Intel C741Intel C741Intel C7412x DIMM slots DDS 56044800 RDIMM 3DS RDIMM (DPC) RDIMM (DPC) RDIMM (DPC) $16 \times DIMM slotsDDS 480044400 RDIMM/3DSRDIMM (DPC)DDS 48004400 RDIMM/3DSRDIMM (DPC)Maximum 4TB per CPU16 \times DIMM slotsSDD 65 48004400 RDIMM/3DSRDIMM (DPC)Maximum 4TBDDS 5004800 RDIMM (DPC)Maximum 4TBDDF 5004800 RDIMM (DPC)Maximum 409668Appeed AST2600 64MBAppeed AST2600 64MB4 Repet AST2600 64MBAppeed AST2600 64MBAppeed AST2600 64MBAppeed AST2600 64MBAppeed AST2600 64MB6 Repet AST2600 64MBAppeed AST2600 64MBFort 1 x PCE x8 dot (Gen5 APP)Fort 1 x PCE x8 dot (Gen5 $	Processor	4th Intel® Xeon® Processor Scalable Family 5th Intel® Xeon® Processor Scalable Family	4th Intel® Xeon® Processor Scalable Family 5th Intel® Xeon® Processor Scalable Family	2 x Socket SP5 (LGA 6096) AMD EPYC [™] 9004 Series Processors (Up to 240W) (With air cool up to 240W, with	2 x Socket E (LGA4677) 4th Gen Intel® Xeon® Scalable processors 5th Gen Intel® Xeon® Scalable processors (with Air cool up to 270W, with
JZX DMM dots BDDS S600/4800 RDIMM/3DS RDIMM (2DPC) Musimum 4TB per CPUDis A DMM dots BDDS 4400/4000 RDIMM/3DS RDIMM (1DPC) Musimum 4TB Musimum 4TB Musimum 4TB PC CPUPer node: the DDS 4400/400 RDIMM/3DS DDS 4400 RDIMM/RDIMM DDS 50004400 AMH2 Musimum 4TB Musimum 4TBPer node: the DDS 50004400 AMH2 Musimum 6144GBPer node: the DDS 50004400 AMH2 Musimum 6144GBMusimum 4TB DDS 4600 RDI ATEX DOS 6400 RDI ATEX For RDI ATEX FOR RDI ATEX DOS 6400 RDI ATEX FOR RDI ATEX FOR RDI ATEX 	Chipset	Intel [®] C741	Intel® C741	System on Chip (SoC)	• •
Up to 8 double-slot GPU cardsUp to 4 double-slot GPU cardsN/AN/A8x PCle x16 slot (Gen5, FHFL) for dual-slot GPU cardsFront: 1 x PCle x8 slot (Gen4 x8 link, Front: 1 x PCle x16 slot (Gen5, LPHL) for K1 cardFront: 1 x PCle x8 slot (Gen4 x8 link, 	Memory	DDR5 5600/4800 RDIMM/ 3DS RDIMM (2DPC)	16 x DIMM slots DDR5 4800/4400 RDIMM/3DS RDIMM(1DPC)	Per node: 24 x DIMM slots DDR5 4800 RDIMM/RDIMM 3DS(1DPC)	Per node: 16 x DIMM slots 4th: DDR5 4800 MHz RDIMM/3DS RDIMM (1DPC) 5th: DDR5 5600/4800 MHz RDIMM/3DS RDIMM (1DPC)
Br PCle x16 slot (Gen5, FHFL) for dual-isot (Gen2, GPL and for it x PCle x16 slot (Gen5, FHFL) for it x PCle x16 slot (Gen5, SHFL) for it x PCle x16 slot (Gen5, SHFL) for it x PCle x16 slot (Gen5, SHFL) for NLC 22 front 1 x PCle x16 slot (Gen5, SHFL) for NLC 22 front 1 x PCle x16 slot (Gen5, SHFL) for NLC 22 front 1 x PCle x16 slot (Gen5, SHFL) for NLC 22 for Cle x16 slot (Gen5, SHFL) for NLC 22 for NLC 22 for Cle x16 slot (Gen5, SHFL) for NLC 22 	VGA	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB
for dual-slot GPU cardForn: 1 x PCle x16 slot (Gen5 x16, IIIN, Prot: 1 x PCle x16 slot (Gen5 x16, IIIN, PHL) Only for SKU1 Rear: SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2; SKU-2;	Graphic			•	•
Rear: NC IC ar 6 slot (Gen5), FHFL) NC IC ar 6 slot (Gen5)2 x PCIe x 16 slots (Gen5 x 16 link, FHL)2 x PCIe x 16 slots (Gen5)2 x PCIe x	Expansion Slots	for dual-slot GPU card SKU-1: Front: 1 x PCle x16 slot (Gen5 ,LPHL) for HBA/RAID cards Rear: 4 x PCle x16 slot (Gen5) for NIC card SKU-2: Front: 1 x PCle x16 slot (Gen5 ,LPHL)	LPHL) Only for SKU1 Rear: 4 x PCle x16 slots (Gen5 x16 link, FHFL) for dual-slot GPU cards or 8 x PCle x16 slots (Gen5 x8 link,	Up to 2 slots	Up to 2 slots 2 x PCle x16 slot (Gen5 x16 link,
s(backplane supports up to 8 x NVMe/SATA/SAS*) XM // MVMe/SATA/SAS*)x3.5* NVMe/SATA/SAS*) XA // Link PCIe mode, up to 2280) TAID card is required to support SAS hard drives **For SKU1 additional 2 x NVMe support inves **For SKU1 additional 2 x NVMe support sATA/SAS support from optional CB board(Up to 8 x NVMe/SATA/SAS*) 8 x M.2 (Up to 22110, PCIe mode) *SATA/SAS support from optional CB board8 x M.2 (Up to 22110, PCIe mode) *SATA/SAS support from optional CB board2 x GbE or 10GbE LAN ports 1 x Management port*2 x 1GbE LAN ports 1 x Management portPer node: 2 x 10GbE LAN ports 1 x Management portPer node: 2 x 10GbE LAN ports 1 x Management portPer node: 2 x 10GbE LAN ports 1 x Management porttts2 x USB 3.2 Gen1 ports 1 x COM port 2 x 1GbE LAN ports 2 x 1GbE LAN ports 2 x 1GbE LAN ports 2 x 1GbE LAN ports 2 x 1GbE LAN ports 1 x Management portPer node: 2 x USB 3.2 Gen1 ports 1 x WGA port 2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 1GbE LAN ports 2 x 1GbE LAN ports 		3 x PCIe x16 slot (Gen5 ,FHFL) for NIC card 1 x PCIe x16 slot (Gen5) for OCP socket Front Bays:	2 x PCle x16 slots (Gen5 x16 link, FHHL) SKU-1:2 x 2.5" NVMe/SATA/SAS* + 2 x3.5" SATA/SAS*/NVMe + 2 x 3.5" SATA/ SAS*		
Image: Section 10GbE LAN ports 1 x Management port"2 x 1GbE LAN ports 1 x Management portPer node: 2 x 10GbE LAN port 1 x Management portPer node: 2 x 10GbE LAN ports 1 x Management portImage: Section 2 x USB 3.2 Gen1 ports4 x USB 3.2 Gen1 portsN/AN/AImage: Section 2 x USB 3.2 Gen1 portsX/GA port 2 x USB 3.2 Gen1 portsPer node: 2 x USB 3.2 Gen1 portsPer node: 	Storage Bays	NVMe/SATA/SAS*) 1 x M.2 support (Gen3 x4 link) *RAID card is required to support SAS hard	x3.5" NVMe/SATA/SAS* (Occupy 1 x PCIe x8 link), 1 x M.2 socket (Gen3 x4 link PCIe mode, up to 2280) "RAID card is required to support SAS hard drives	(Up to 8x NVMe/SATA/SAS*) 8 x M.2 (Up to 22110, PCIe mode) *SATA/SAS support from optional CB	8 x M.2 (Up to 22110, SATA & PCIe mode) *SATA/SAS support from optional CB
ts1 x VGA port 1 x COM port 2 x 1GbE or 10GbE LAN ports 1 x Management port2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 1GbE LAN portsPer node: 2 x USB 3.2 Gen1 ports 1 x VGA port 2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 1GbE LAN portsPer node: 2 x USB 3.2 Gen1 ports 1 x VGA port 2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 1GbE LAN portsPer node: 2 x USB 3.2 Gen1 ports 1 x VGA port 2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 1GbE ports 1 x Management portPer node: 2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 1GbE ports 1 x Management portPer node: 2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 1GbE ports 1 x Management portPer node: 2 x USB 3.2 Gen1 ports 	Networking		2 x 1GbE LAN ports	2 x 10GbE LAN port	2 x 10GbE LAN ports
1 x VGA port 1 x COM port 1 x COM port 1 x COM port 1 x COM port 2 x 1GbE LAN ports2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 1GbE LAN ports2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 1GbE ports 1 x VGA port 2 x 1GbE LAN ports2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 1GbE ports 1 x VGA port 2 x 1GbE LAN ports2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 1GbE ports 1 x VGA port 1 x Management port2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 10GbE ports 1 x VGA port 2 x 10GbE ports 1 x Management port2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 10GbE ports 1 x VGA port 2 x 10GbE ports 1 x Management port2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 10GbE ports 1 x VGA port 2 x 10GbE ports 1 x Management port2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 10GbE ports 1 x VGA port 2 x 10GbE ports 1 x Management port2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 10GbE ports 1 x VGA port 2 x 10GbE ports 1 x Management port2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 10GbE ports 1 x Management port2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 10GbE ports 0 ptional TPM module Optional PFR module2 x USB 3.2 Gen1 ports 1 x Management port2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 10GbE ports 0 ptional TPM module Optional PFR module2 x USB 3.2 Gen1 ports 1 x Management port2 x USB 3.2 Gen1 ports 2 x 10GbE ports 0 ptional TPM module Optional PFR module2 x USB 3.2 Gen1 ports 0 ptional TPM module Optional PFR module2 x USB 3.2 Gen1 ports 0 ptional TPM module Optional PFR module2 x USB 3.2 Gen1 po	Front I/O ports	2 x USB 3.2 Gen1 ports	4 x USB 3.2 Gen1 ports	N/A	N/A
It Management port It X Management port It X Management port It X Management port It X Management port It X Management port It Solution Optional TPM module Optional PFR module X Solution ASUS Control Center ASUS ASMB11-iKVM (on-board) Management port 800mm x 430.5mm x 88.9mm (2U) 31.5" x 17.32" x 6.87" 800mm x 434.5mm x 88.9mm (2U) 33.35" x 17.48" x 3.44" 800mm x 434.5mm x 88.9mm (2U) 31.5" x 17.48" x 3.44" Management port 1+1 Redundant 2600W 80 PLUS Titanium Power Supply 1+1 Redundant 2600W 80 PLUS 1+1 Redundant 3000W/2600W 1+1 Redundant 3000W 80 PLUS 1+1 Redundant 3000W 80 PLUS	Rear I/O ports	1 x COM port 2 x 1GbE or 10GbE LAN ports	1 x VGA port	2 x USB 3.2 Gen1 ports 1 x VGA port	2 x USB 3.2 Gen1 ports 1 x VGA port
JonsOptional PFR moduleOptional PFR modulePFR moduleOptional PFR moduleASUS Control Center ASUS ASMB11-iKVM (on-board)ASUS Control Center ASUS ASMB11-iKVM (on-board)ASUS Control Center ASUS ASMB11-iKVM (on-board)ASUS Control Center ASUS ASMB11-iKVM (on-board)ASUS Control Center ASUS ASMB11-iKVM (on-board)800mm x 440mm x 174.5mm (4U) 31.5" x 17.32" x 6.87"800mm x 439.5mm x 88.9mm (2U) 31.5" x 17.3" x 3.5"847mm x 444mm x 87.3mm (2U) 33.35" x 17.48" x 3.44"800mm x 444mm x 88mm (2U) 31.5" x 17.48" x 3.44"V nt2+2 Redundant 3000W/2600W 2+1 Redundant 3000W/2600W 2+1 Redundant 3000W/2600W1+1 Redundant 2600W 80 PLUS Titanium Power Supply 1+1 Redundant 3200W 80 PLUS1+1 Redundant 3000W 80 PLUS Titanium Power Supply 1+1 Redundant 3200W 80 PLUS		· ·	Ontional TDM modulo		
ASUS ASMB11-iKVM (on-board) ASUS ASMB11-iKVM (on-board) ASUS ASMB11-iKVM (on-board) ASUS ASMB11-iKVM (on-board) 800mm x 440mm x 174.5mm (4U) 800mm x 439.5mm x 88.9mm (2U) 847mm x 444mm x 87.3mm (2U) 800mm x 444mm x 88mm (2U) 31.5" x 17.32"x 6.87" 31.5" x 17.3" x 3.5" 33.35" x 17.48" x 3.44" 81.5" x 17.48" x 3.44" V 2+2 Redundant 3000W/2600W 1+1 Redundant 2600W 80 PLUS 1+1 Redundant 2600W 80 PLUS 1+1 Redundant 3000W 80 PLUS 1+1 Redundant 3000W 80 PLUS nt 2+1 Redundant 3000W/2600W 1+1 Redundant 2600W 80 PLUS 1+1 Redundant 3200W 80 PLUS 1+1 Redundant 3000W 80 PLUS 1+1 Redundant 3000W 80 PLUS	Security Options				
31.5"x 17.32"x 6.87" 31.5" x 17.3" x 3.5" 33.35" x 17.48" x 3.44" 31.5" x 17.48"x 3.46" y 2+2 Redundant 3000W/2600W 1+1 Redundant 2600W 80 PLUS 1+1 Redundant 2600W 80 PLUS 1+1 Redundant 3000W 80 PLUS nt 2+1 Redundant 3000W/2600W 1+1 Redundant 2600W 80 PLUS 1+1 Redundant 3000W 80 PLUS 1+1 Redundant 3000W 80 PLUS	Management Solution				
80 PLUS Titanium Power Supply 1+1 Redundant 2600W 80 PLUS Titanium Power Supply Titanium Power Supply 1 2+1 Redundant 3000W/2600W Titanium Power Supply 1+1 Redundant 3200W 80 PLUS Titanium Power Supply	Dimension				
	Power Supply (following different configuration by region)	80 PLUS Titanium Power Supply 2+1 Redundant 3000W/2600W		Titanium Power Supply 1+1 Redundant 3200W 80 PLUS	Titanium Power Supply 1+1 Redundant 3600W 80 PLUS





EG520-E11-RS6-R



EG520-E11-RS6-F

	1 x Socket E (LGA 4677) 4th Gen Intel® Xeon® Scalable Processors Family 5th Gen Intel® Xeon® Scalable Processors Family (Up to 350W)	1 x Socket E (LGA 4677) 4th Gen Intel® Xeon® Scalable Processors Family 5th Gen Intel® Xeon® Scalable Processors Family (Up to 205W or 225W EE SKUs)
	Intel® C741	Intel® C741
DS DS	8 x DIMM slots 4th: DDR5 4800 MHz RDIMM/3DS RDIMM (1DPC) 5th: DDR5 5600 MHz RDIMM/3DS RDIMM (1DPC) Maximum 2048GB	8 x DIMM slots 4th: DDR5 4800 MHz RDIMM/3DS RDIMM (1DPC) 5th: DDR5 5600 MHz RDIMM/3DS RDIMM (1DPC) Maximum 2048GB
	Aspeed AST2600 64MB	Aspeed AST2600 64MB
	Up to 2 double-slot GPU cards *0–35°C for GPU-equipped SKUs	Up to 2 double-slot GPU cards *0–35°C for GPU-equipped SKUs
HL)	Up to 5 slots 1 x PCle G5 x16 link (FHHL) or 2 x PCle G5 x8 link (FHHL)+ 2 x PCle G5 x16 link (FHFL) or 3 x PCle G5 x16/x8/x8 link (FHFL)	Up to 5 slots 1 x PCle G5 x16 link (FHHL) or 2 x PCle G5 x8 link (FHHL)+ 2 x PCle G5 x16 link (FHFL) or 3 x PCle G5 x16/x8/x8 link (FHFL)
ays 5	2x 2.5" Front Hot-swap drive bays(NVME/SATA)+ 4x 2.5" Rear Hot-swap drive bays 2x M.2 (22110/2280, PCIe) Gen5 x8 Link	4x 2.5" Front Hot-swap drive bays (NVME/SATA)+ 2x E1.5 (optional for E1.S SKU) 2x M.2 (22110/2280, PCIe) Gen5 x8 Link *E1.5 only supported for E1.S SKU, cannot be purchased separately
	2 x 10GbE LAN port 1x Management port	2 x 10GbE LAN port 1x Management port
	2 x USB 3.2 Gen1 ports 1 x VGA port	1 x VGA port 2 x USB 3.2 Gen1 ports 2 x RJ-45 10G LAN port 1 x RJ-45 Mgmt LAN port 1 x RJ-45 Console port
	1 x VGA port 2 x USB 3.2 Gen1 ports 2 x RJ-45 10G LAN port 1 x RJ-45 Mgmt LAN port 1 x RJ-45 Console port	2 x USB 3.2 Gen1 ports 1 x VGA port
	Optional TPM module Optional PFR module	Optional TPM module Optional PFR module
1)	ASUS Control Center ASUS ASMB11-iKVM (on-board)	ASUS Control Center ASUS ASMB11-iKVM (on-board)
U)	430mm x 438.5mm x 87mm(2U) 16.93" x 17.26" x 3.43"	399*mm x 438.5mm x 87mm(2U) 15.71" x 17.26" x 3.43" *ear to rear wall
N	1+1 Redundant 2000W 54.5MM SLIM Titanium Power Supply 1+1 Redundant 1300W 50.5MM SLIM Platinum Power Supply	1+1 Redundant 1300W 50.5MM SLIM Platinum Power Supply 1+1 Redundant 1300W 50.5MM SLIM 48V Power Supply

SLIM Titanium Power Supply 1+1 Redundant 1300W 50.5MM oply 0.5MM SLIM Platinum Power Supply

SLIM 48V Power Supply

Sample

Processor

Chipset

Memory

VGA

Graphic

Expansion Slots

Storage Bays

Networking

Front I/O ports

Rear I/O ports

Security Options

Management Solution

Edge server



EG500-E11-RS4-R

4th Gen Intel® Xeon® Scalable

5th Gen Intel® Xeon® Scalable

4th: DDR5 4800 MHz RDIMM/3DS

5th: DDR5 5600 MHz RDIMM/3DS

Up to 1 double-slot GPU card and

1 x Socket E (LGA 4677)

Processors Family

Processors Family

(Up to 350W)

8 x DIMM slots

RDIMM (1DPC)

RDIMM (1DPC)

Maximum 2048GB

Aspeed AST2600 64MB

1 single-slot GPU card

Up to 3 PCIe Gen5 slots

E1.S Hot-swap drive bays

l ink

3 x PCle G5 x16 link (FHHL)

2x 2.5" Front Hot-swap drive bays

(SATA/NVME)+ 2x 2.5" Int. SATA + 2x

2x M.2 (22110/2280, PCIe) Gen5 x8

SKU, cannot be purchased separately

cannot be purchased separately

2 x 10GbE LAN port

1x Management port

2 x USB 3.2 Gen1 ports

2 x USB 3.2 Gen1 ports

2 x RJ-45 10G LAN port

1 x RJ-45 Console port

Optional TPM module

Optional PFR module

ASUS Control Center

430mm x 438.5mm x

16.93" x 17.26" x 1.72"

43.7mm(1U)

ASUS ASMB11-iKVM (on-board)

1+1 Redundant 650W 50.5MM

1+1 Redundant 1300W 50.5MM

SLIM Platinum Power Supply

SLIM Platinum Power Supply

50.5MM SLIM Titanium Power

1+1 Redundant 800W

Supply(TBD)

1 x RJ-45 Mgmt LAN port

1 x VGA port

1 x VGA port

* Internal SATA SSD is optional for 650W

*E1.S is optional and only supported for E1.S

Intel[®] C741



EG500-E11-RS4-F

4th Gen Intel® Xeon® Scalable

5th Gen Intel® Xeon® Scalable

(Up to 205W or 225W EE SKUs)

4th: DDR5 4800 MHz RDIMM/3DS

5th: DDR5 5600 MHz RDIMM/3DS

1 x Socket E (LGA 4677)

Processors Family

Processors Family

Intel[®] C741

8 x DIMM slots

RDIMM (1DPC)

RDIMM (1DPC)

Maximum 2048GB

Aspeed AST2600 64MB

Up to 3 PCIe Gen5 slots

3 x PCle G5 x16 (FHHL)

swap drive bays

l ink

PSU/ short PSU and only for internal bay SKU, PSU/ short PSU and only for internal bay SKU,

Up to 2 single-slot GPU cards

2x 2.5" Front Hot-swap drive bays

2x M.2 (22110/2280, PCle) Gen5 x8

SKU, cannot be purchased separately

cannot be purchased separately

2 x 10GbE LAN port

1 x VGA port

1 x VGA port

1 x Management port

2 x USB 3.2 Gen1 ports

2 x RJ-45 10G LAN port

1 x RJ-45 Console port

2 x USB 3.2 Gen1 ports

Optional TPM module

Optional PFR module

ASUS Control Center

399*mm x 438.5mm x

15.71" x 17.26" x 1.72"

43.7mm(1U)

*ear to rear wall

ASUS ASMB11-iKVM (on-board)

1+1 Redundant 650W 50.5MM

1+1 Redundant 1300W 50.5MM

SLIM Platinum Power Supply

SLIM Platinum Power Supply

1+1 Redundant 650W 50.5MM

SLIM 48V Power Supply 1+1 Redundant 1300W 50.5MM

SLIM 48V Power Supply

1 x RJ-45 Mgmt LAN port

* Internal SATA SSD is optional for 650W

*E1.S is optional and only supported for E1.S

(SATA)+ 2x 2.5" Int. SATA + 2x E1.S Hot-



Supply(TBD)



8	
EG500-E11-RS2-R	EG500-E11-RS2-F
1 x Socket E (LGA 4677) 4th Gen Intel® Xeon® Scalable Processors Family 5th Gen Intel® Xeon® Scalable Processors Family (Up to 350W)	1 x Socket E (LGA 4677) 4th Gen Intel® Xeon® Scalable Processors Family 5th Gen Intel® Xeon® Scalable Processors Family (Up to 205W or 225W EE SKUs)
Intel® C741	Intel® C741
8 x DIMM slots 4th: DDR5 4800 MHz RDIMM/3DS RDIMM (1DPC) 5th: DDR5 5600 MHz RDIMM/3DS RDIMM (1DPC) Maximum 2048GB	8 x DIMM slots 4th: DDR5 4800 MHz RDIMM/3DS RDIMM (1DPC) 5th: DDR5 5600 MHz RDIMM/3DS RDIMM (1DPC) Maximum 2048GB
Aspeed AST2600 64MB	Aspeed AST2600 64MB
Up to 1 double-slot GPU card and 1 single-slot GPU card	Up to 2 single-slot GPU cards
Up to 3 PCle Gen5 slots 1 x PCle G5 x16 link (FHHL)+2 x PCle G5 x16 link (FHFL)	Up to 3 PCle Gen5 slots 1 x PCle G5 x16 link (FHHL)+2 x PCle G5 x16 link (FHFL)
2x E1.5 + 2x 2.5" Int. SATA for 650W/ Short PSU 2x E1.5 for 1300W/Long PSU 2x M.2 (22110/2280, PCIe) Gen5 x8 Link *E1.5 is optional and only supported for E1.5 SKU, cannot be purchased separately *Internal SATA SSD is optional for 650W PSU/ short PSU and only for internal bay SKU, cannot be purchased separately	2x E1.5 + 2x 2.5" Int. SATA for 650W/ Short PSU 2x E1.5 for 1300W/Long PSU 2x M.2 (22110/2280, PCIe) Gen5 x8 Link *E1.5 is optional and only supported for E1.5 SKU, cannot be purchased separately *Internal SATA SSD is optional for 650W PSU/short PSU and only for internal bay SKU, cannot be purchased separately
2 x 10GbE LAN port 1x Management port	2 x 10GbE LAN port 1x Management port
2 x USB 3.2 Gen1 ports 1 x VGA port	1 x VGA port 2 x USB 3.2 Gen1 ports 2 x RJ-45 10G LAN port 1 x RJ-45 Mgmt LAN port 1 x RJ-45 Console port
1 x VGA port 2 x USB 3.2 Gen1 ports 2 x RJ-45 10G LAN port 1 x RJ-45 Mgmt LAN port 1 x RJ-45 Console port	2 x USB 3.2 Gen1 ports 1 x VGA port
Optional TPM module Optional PFR module	Optional TPM module Optional PFR module
ASUS Control Center ASUS ASMB11-iKVM (on-board)	ASUS Control Center ASUS ASMB11-iKVM (on-board)
430mm x 438.5mm x 43.7mm(1U) 16.93" x 17.26" x 1.72"	399*mm x 438.5mm x 43.7mm(1U) 15.71" x 17.26" x 1.72" *ear to rear wall
1+1 Redundant 650W 50.5MM SLIM Platinum Power Supply 1+1 Redundant 1300W 50.5MM SLIM Platinum Power Supply 1+1 Redundant 800W 50.5MM SLIM Titanium Power	1+1 Redundant 650W 50.5MM SLIM Platinum Power Supply 1+1 Redundant 1300W 50.5MM SLIM Platinum Power Supply 1+1 Redundant 650W 50.5MM SLIM 48V Power Supply 1+1 Redundant 1300W 50.5MM

1+1 Redundant 1300W 50.5MM SLIM 48V Power Supply

inger von de
لكان الربكا
AT 1 40 .
19. MOX
10400-18882-

Storage Solutions



	Sample	VS320D-RS26
	Architecture	Dual-active controller
	Processor	Intel®Xeon® 64-bit 4-core
	Memory	Per Node: 4 x DIMM slots DDR4 up to 2400 RDIMM DDR4 up to 3200 ECC DIMM Maximum 256GB
	Storage	26 x 2.5"Front Hot-swap drive bays Compatible Drive Type: 2.5"SAS,NL-SAS,SED HDD/2.5"SAS,SED SSD Maximum Drive Bays with Expansion Unit: 546 Bays Drive Interface: SAS 12Gb/s Maximum Internal Raw Capacity: 798 TB (calculate 30.72 TB HDD) Maximum Raw Capacity with Expansion Units: 16,773 TB (calculate 30.72TB HDD)
	Connectivity Port	Up to 2 PCle Gen3 slots 2 x PCle Gen3 x8 Optional (per controller): 4 x 10GbE SFP+ LAN Port 4 x 10GbE RJ45 LAN Port 2 or 4 x 25GbE SFP28 LAN Port 2 or 4 x 16Gb SFP+ Fibre Channel 2 x 32Gb SFP28 Fibre Channel 1 x Management port (onboard per controller) 4 x 10GbE SFP+ LAN Port (onboard per controller)
	Expansion and External Port	2 x 12Gb/s SAS Wide Port (onboard per controller) 1x USB Port (front) 2x USB Ports(rear) 1x Console Port 1x Service Port (UPS)
	Software Specification	Storage OS: ASUS Storage Manager RAIDType: 0/1/3/5/6/10/30/50/60/5EE /6EE /50EE /60EE /N-waymirror Storage Efficiency: Thin provisioning Software Acceleration: SSD cache(optional)/Autotiering (optional) Data Protection: Snapshot /Local volume clone Remote Replication: Asynchronous (built-in)/Synchronous (optional) Security: HTTPS/SSH /iSCSICHAP /ISE&SED Management: WebUI/Serialconsole/RESTfulAPI/S.E.S./LCM
	Memory Protection	Cache-to-Flash(Super capacitor Module+Flash Module) (optional)
	Dimension	88mm x 438mm x 515mm (2U)
	Net Weight kg (CPU, DRAM & HDD not included)	16.3 kg
	Gross Weight kg (GPU, DRAM & HDD not included, Packing included)	18.6 kg
	Power Supply (following different configuration by region)"	1+1 Redundant 850W 80 PLUS Titanium Power Supply 1+1 Redundant 850W 80 PLUS Platinum Power Supply



Power Supply

(following different

configuration by region)



VS320D-RS12

Dual-active controller

Intel®Xeon® 64-bit 4-core

Per Node: 4 x DIMM slots DDR4 up to 2933 RDIMM DDR4 up to 3200 ECC DIMM Maximum 256GB

12 x 3.5"Hot-swap drive bays Compatible Drive Type: 3.5"&2.5" SAS,NL-SAS,SED HDD/2.5"SAS,SED SSD Maximum Drive Bays with Expansion Unit: 492 Bays Drive Interface: SAS 12Gb/s Maximum Internal Raw Capacity: 264 TB (calculate 22 TB HDD) Maximum Raw Capacity with Expansion Units: 10,824 TB (calculate 22 TB HDD)

Up to 2 PCIe Gen3 slots 2 x PCle Gen3 x8

Optional (per controller): 4 x 10GbE SFP+ LAN Port 4 x 10GbE RJ45 LAN Port 2 or 4 x 25GbE SFP28 LAN Port 2 or 4 x 16Gb SFP+ Fibre Channel 2 x 32Gb SFP28 Fibre Channel

1 x Management port (onboard per controller) 4 x 10GbE SFP+ LAN Port (onboard per controller)

2 x 12Gb/s SAS Wide Port (onboard per controller) 1x USB Port (front) 2x USB Ports(rear) 1x Console Port 1x Service Port (UPS)

Storage OS: ASUS Storage Manager RAIDType: 0/1/3/5/6/10/30/50/60/5EE /6EE /50EE /60EE /N-waymirror Storage Efficiency: Thin provisioning Software Acceleration: SSD cache(optional)/Autotiering (optional) Data Protection: Snapshot /Local volume clone Remote Replication: Asynchronous (built-in)/Synchronous (optional) Security: HTTPS/SSH /iSCSICHAP /ISE&SED Management: WebUI/Serialconsole/RESTfulAPI/S.E.S./LCM

Cache-to-Flash(Super capacitor Module+Flash Module) (optional)

88mm x 438mm x 515mm (2U)

16.4 kg

18.8 kg

1+1 Redundant 850W 80 PLUS Titanium Power Supply

1+1 Redundant 850W 80 PLUS Platinum Power Supply





World Records Leading computing performance Dual-and single-socket servers



Achieved **1,772⁺** world-record benchmarks with SPEC CPU[®] 2017, and still growing



World's most power-efficient servers on SPECpower



2P server on SPECjbb-Composite and SPECjbb-Multi-JVM performance



Ranked **Top 20** on the Top 500 list of the world's most powerful supercomputers and **Top 10** on the Green500 list in 2018 by supporting TAIWANIA 2



Ranked No.1 on the **Green500** list of energy-efficient supercomputers in 2014