ASUS
IN SEARCH OF INCREDIBLE

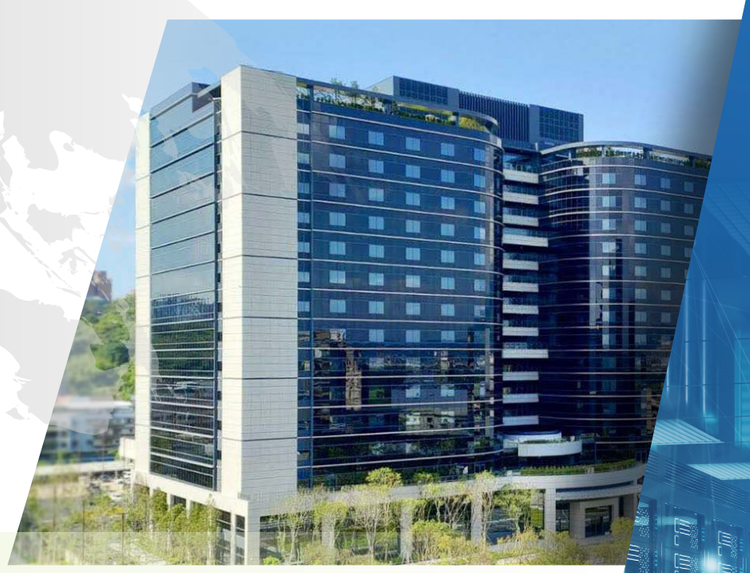
TRUSTED Ai TOTAL FLEXIBILITY

Infrastructure Solutions Portfolio



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 INFRASTRUCTURE SOLUTION

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

IN-HOUSE DESIGN, ANY CUSTOMIZATION REQUIREMENT

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.

GLOBAL R&D TALENT & SUPPORT COVERAGE

ASUS retains a dedicated global R&D team refining servers in 98 countries through 160+ branches, supported by 2,500+ 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) for businesses through environmentally sustainable, high-performance designs.

CLIMATE GROUP RE100 · CDP A List 2025 · GLOBAL100 · Corporate ESG Performance Prime · ASRA

1995
OEM/ODM

2010
Server Business

Data Center Solutions

2024
Infrastructure Solutions

2026
Infrastructure Solutions Business Group

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 Joined VMware technology partnership

2012 Released supercomputing, big data and storage server solutions

2014 Achieved Green500 Top 1 with ESC4000-G2S

Launched ASUS System Web-based Management (ASWM)

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

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

Joined RedHat technology partnership

2019 Joined Open Compute Project

2020 Joined Ubuntu technology partnership

2021 First delivery to EEMEA cloud-service provider

Jointly developed 5G edge server with 5G provider

2022 World records on MLPerf training and inference

2023 Won project for FORERUNNER 1 supercomputer to accelerate AI 2.0 era

2024 Unleash comprehensive AI Infrastructure Solutions

Partner with Ubilink to built the largest supercomputing facility in Taiwan

Supercomputer ranked top 31 on the global TOP500 list and 44th on Green500 list

2025 Supported the National Center for High-Performance Computing (NCHC) in the development of Taiwan's Nano4 AI supercomputer, ranked #29 on the TOP500

Established ASUS AI Lab in Luzhu, Taiwan, validating AI server firmware, environmental reliability, and thermal performance before mass production

Became one of the first worldwide to ship NVIDIA GB300 NVL72 and HGX™ B300 systems

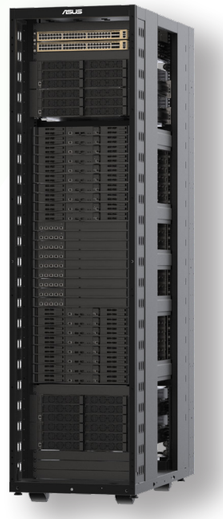
2026 Elevated Infrastructure Solutions Business Group develops AI servers, infrastructure, and end-to-end edge solutions, driving long-term investment in global AI infrastructure



Build Your AI Factory with

NIVIDIA-based Solutions

NVIDIA Vera Rubin



XA VR721-E3

ASUS AI POD with NVIDIA Vera Rubin NVL72

Form Factor	Rack
GPU	NVIDIA Rubin GPU
CPU	NVIDIA Vera CPU
Memory Type	LDDR5X+HBM4
Drive Bays	72 x E1.S
Networking	72 x NVIDIA® ConnectX®-9 800GbE OSFP ports 18 x NVIDIA BlueField®-4 DPUs

NVIDIA Grace Blackwell

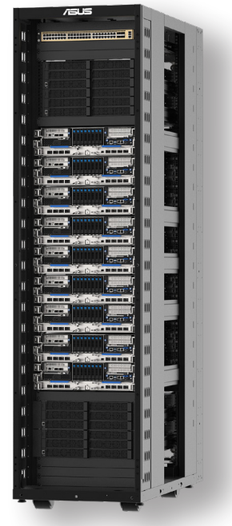


XA GB721-E2

ASUS AI POD with NVIDIA GB300 NVL72

Form Factor	Rack
GPU	NVIDIA Blackwell Ultra GPU
CPU	NVIDIA Grace CPU
Memory Type	LPDDR5X+HBM3e
Drive Bays	144 x E1.S NVIDIA® ConnectX®-8
Networking	72 x NVIDIA® ConnectX-8 800Gb OSFP ports 18 x NVIDIA® BlueField-3 DPU

NVIDIA HGX™ Systems



XR R1I12B-M1BHFS

NVIDIA HGX™ Rubin NVL8 for massive reasoning

Form Factor	Rack
GPU	NVIDIA HGX™ Rubin NVL8
CPU	Intel® Xeon® 6 Processors
Memory Type	32 x DIMM slots Maximum up to 4TB
Drive Bays	8 x 2.5"
Networking	1 x BF4 (NDR, ETH 2 x 400G) 8 x 800Gb OSFP 1 x Management Port





XR R1I12B-M1BLFS

NVIDIA HGX™ Rubin NVL8 for massive reasoning

Form Factor	Rack
GPU	NVIDIA HGX™ Rubin NVL8
CPU	Intel® Xeon® 6 Processors
Memory Type	32 x DIMM slots Maximum up to 4TB
Drive Bays	8 x E1.S
Networking	1 x BF4 (NDR, ETH 2 x 400G) 8 x 800Gb OSFP 1 x Management Port



NVIDIA PLATFORM

Build Your AI Factory with

NIVIDIA-based Solutions

INTEL PLATFORM

Accelerate HPC with

Intel-based Solutions

NVIDIA HGX™ Systems



XA NB3I-E12

NVIDIA HGX™ B300 for heavy AI workloads

Form Factor	9U
GPU	NVIDIA HGX™ B300
CPU	Intel® Xeon® 6 Processors
Memory Type	32 x DIMM slots Maximum up to 4TB
Drive Bays	10 x 2.5"
Networking	2 x10Gb base-T 8 x 800Gb OSFP 1 x Management Port

NVIDIA MGX™ Systems



XA P2N-E2

NVIDIA MGX™ 2U Server with NVIDIA Vera processors dedicated for Agentic AI workloads

Form Factor	2U
GPU	NVIDIA RTX PRO™ 6000 Blackwell Server Edition NVIDIA RTX PRO™ 4500 Blackwell Server Edition
CPU	NVIDIA Vera Processors
Memory Type	16 x SOCAMM2 maximum up to 1.5TB
Drive Bays	8 x E1.S
Networking	1 x Management Port

NVIDIA MGX™ Systems



ESC8000A-E13X

NVIDIA RTX PRO™ Server for enterprise and industrial AI workloads

Form Factor	4U
GPU	NVIDIA RTX PRO™ 6000 Blackwell Server Edition
CPU	AMD EPYC™ 9005 series processors
Memory Type	24 x DIMM slots Maximum up to 3TB
Drive Bays	8 x 2.5"
Networking	8 x 400Gb QSFP 2 x 10GbE base-T 1 x Management Port



ESC8000A-E13P

NVIDIA MGX™ high-density 4U Server for enterprise and industrial AI workloads

Form Factor	4U
GPU	NVIDIA H200 NVL, NVIDIA RTX PRO™ 6000 Blackwell Server Edition NVIDIA RTX PRO™ 4500 Blackwell Server Edition
CPU	AMD EPYC™ 9005/ 9004 series processors
Memory Type	24 x DIMM slots Maximum up to 3TB
Drive Bays	8 x 2.5"
Networking	2 x10Gb base-T 1 x Management Port

Intel® Gaudi® 3 AI Accelerators



ESC8000-E12P

NVIDIA MGX™ high-density 4U Server for enterprise and industrial AI workloads

Form Factor	4U
GPU	Intel® Gaudi® 3 PCIe, NVIDIA H200 NVL, NVIDIA RTX PRO™ 6000 Blackwell Server Edition NVIDIA RTX PRO™ 4500 Blackwell Server Edition
CPU	Intel® Xeon® 6 processors
Memory Type	32 x DIMM slots Maximum up to 8TB
Drive Bays	8 x 2.5"
Networking	2 x10Gb base-T 1 x Management Port

Intel® Xeon® 6 processors



RS720-E12

GPU-accelerator optimization for maximum efficiency

Form Factor	2U
CPU	Intel® Xeon® 6 processors
Memory Type	32 x DIMM slots Maximum up to 8TB
Drive Bays	24 x 2.5"/12 x 3.5"/8 x 2.5"
Networking	1 x Management Port



RS700-E12

Effortless deployment and exceptional value

Form Factor	1U
CPU	Intel® Xeon® 6 processors
Memory Type	32 x DIMM slots Maximum up to 8TB
Drive Bays	12 x 2.5"/4 x 3.5"
Networking	1 x Management Port



AMD PLATFORM

Elevating AI Infrastructure with

AMD-based Solutions

AMD Instinct™ MI355X



XA AM3A-E13

Designed to scale the highest compute performance & AI

Form Factor	10U
CPU	AMD EPYC™ 9005/9004 processors
Memory Type	24x DDR5 DIMM slots, up to 6400MHz(1DPC) Maximum up to 3TB
Drive Bays	10 x 2.5" hot-swap bays
Networking	1 x Management Port 2 x 10Gb RJ45 LAN module (Intel-x710 Based)

AMD EPYC™ 9006 processors



RS720A-E14B

Dual-Socket, High-Scalability General Purpose 2U Server

Form Factor	2U
CPU	AMD EPYC™ 9006 processors
Memory Type	32 x DDR5 DIMM slots up to 8000 MHz Maximum up to 4TB
Drive Bays	12 x 2.5" or 3.5"/24 x 2.5"/ 32 x E3.S
Networking	1 x Management Port



RS700A-E14B

Dual-Socket, High-Scalability General Purpose 1U Server

Form Factor	1U
CPU	AMD EPYC™ 9006 processors
Memory Type	32 x DDR5 DIMM slots up to 8000 MHz Maximum up to 4TB
Drive Bays	4 x 2.5" or 3.5"/12 x 2.5"/ 16 x E3.S
Networking	1 x Management Port

AMD EPYC™ 9006 processors



RS500A-E14B

The Ultimate 1U NVMe Breakthrough

Form Factor	1U
CPU	AMD EPYC™ 9006 series processors
Memory Type	16 x DDR5 DIMM slots (2DPC up to 8000 MT/s or 11200 MT/s with MRDIMM) Maximum up to 2TB
Drive Bays	12 x 2.5" NVMe + 4 x E1.S (mid-bay, on selected model) or 16 x E3.S
Networking	1 x Management Port



RS520A-E14B

Engineered for AI and Graphics Acceleration

Form Factor	2U
CPU	AMD EPYC™ 9006 series processors
Memory Type	16 x DDR5 DIMM slots (2DPC up to 8000 MT/s or 11200 MT/s with MRDIMM) Maximum up to 2TB
Drive Bays	12 x 3.5" or 2.5"+ 4 x E1.S (mid-bay, on selected model) / 24 X 2.5"
Networking	1 x Management Port

NO.1 BENCHMARK

SPEC.CPU

ASUS holds the most amount of records on the SPEC CPU 2026 and 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.

2199+

All results can be verified on SPEC.org on Sep, 2026

* 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.

245+

MLPerf Training & Inference

*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.

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.

Top records on MLPerf training and inference

8 NVIDIA HGX™ GPU Server

4

XA NB3I-E12

NVIDIA HGX™ B300 8-GPU server, designed for heavy AI workloads with 8 embedded CX8 InfiniBand on GPU.



8 PCIe GPU Server

6

ESC8000A-E13P

A high-density 4U, 8-GPU server powered by AMD EPYC™ 9005 processors, featuring NVIDIA RTX PRO™ 6000 Blackwell Server Edition, built for enterprise AI infrastructure.*

*Recognized with 5 No.1 achievements with NVIDIA H200 NVL.



1

ESC8000-E12P

A high-density 4U eight dual-slot GPU server compatible with NVIDIA MGX™ architecture, powered by Intel Xeon 6 dual-processors support NVIDIA RTX PRO™ 6000 Blackwell Server Edition, built for the most Enterprise AI and HPC tasks.



Storage Solutions



SAN Storage



VS320D-RS12

2U 12-bay compact hybrid flash SAN storage with low-cost, flexible pay-as-you-grow scalability.

Availability	Dual-active controller architecture with fully redundant components, supporting seamless failover and up to 99.9999% system availability.
Performance	SAS 3 support at 12 Gb/s, with up to 48 Gb/s bandwidth per wide port..
Device	3.5"& 2.5" SAS, NL-SAS, SED HDD 2.5" SAS, SED SSD
Connection	2 x 12Gb/s SAS Wide Port (onboard per controller), 1 x 1 GbE RJ45 LAN Port (onboard management port per controller), 4 x 10 GbE SFP+ LAN Port (onboard per controller), 4 x 10 GbE SFP+ LAN Port (option), 4 x 10 GbE RJ45 LAN Port (option), 2 x 25 GbE SFP28 LAN Port (option) , 4 x 25 GbE SFP28 LAN Port (option), 2 x 16 Gb SFP+ Fibre Channel (option), 4 x 16 Gb SFP+ Fibre Channel (option), 2 x 32 Gb SFP28 Fibre Channel (option)
Data Protection	Snapshot / Replication

Unified Storage



VS320D-RS12U

2U dual-controller active-active unified storage powered by Intel® Xeon®, scalable to 7.7PB with JBOD.

Availability	Dual-active controller architecture with fully redundant components, supporting seamless failover and up to 99.9999% system availability.
Performance	SAS 3 support at 12 Gb/s, with up to 48 Gb/s bandwidth per wide port.
Device	3.5"& 2.5" SAS, NL-SAS, SED HDD 2.5" SAS, SED SSD
Connection	2 x 12Gb/s SAS Wide Port (onboard per controller), 1 x 1 GbE RJ45 LAN Port (onboard management port per controller), 4 x 10 GbE SFP+ LAN Port (onboard per controller), 4 x 10 GbE SFP+ LAN Port (option), 4 x 10 GbE RJ45 LAN Port (option),2 x 25 GbE SFP28 LAN Port (option) , 4 x 25 GbE SFP28 LAN Port (option),2 x 16 Gb SFP+ Fibre Channel (option), 4 x 16 Gb SFP+ Fibre Channel (option), 2 x 32 Gb SFP28 Fibre Channel (option)
Data Protection	Snapshot / Replication

Object Storage



OJ341A-RS60

4U high-density object storage with 60 × 3.5-inch bays for AI/HPC and archive workloads.

Availability	Hot-swappable drives and 2+2 redundant power supplies enhance hardware availability; cluster-level high availability depends on the selected SDS software and multi-node configuration.
Performance	Powered by up to a AMD EPYC™ Genoa/Turin processor, 3TB DDR5 memory and eight NVMe SSDs for high-throughput, low-latency data access.
Device	Supports 60 × 3.5-inch SAS/SATA drives, eight NVMe SSDs, providing up to 1.44PB raw capacity.
Connection	3 x PCIe Gen 5 x 16 (FH,HL), 1 x PCIe Gen 5 x 8 (HH,HL), 1 x 1GbE RJ45 Management Port, 4 x 25GbE SFP28 LAN Port (optional), 2 x 100GbE QSFP56 LAN Port (optional), 2 x 200GbE QSFP112 LAN Port (optional)
Data Protection	Supports SED drives and hardware RAID; replication, erasure coding, data scrubbing and self-healing depend on the selected SDS software.

All Flash Array



VS320D-RS26N

2U all-flash array with up to 26 NVMe SSDs, SAS/25GbE/10GbE/Fibre Channel connectivity.

Availability	Dual-active controller architecture with fully redundant components, supporting seamless failover and up to 99.9999% system availability.
Performance	All-NVMe architecture with built-in 25GbE connectivity and optional 100GbE, delivering high IOPS and low latency for mission-critical workloads.
Device	2.5" dual-port U.2 NVMe SSD
Connection	8 x 25GbE SFP28 LAN Port, 2 x 1GbE RJ45 Management Port, 4 x 12Gb/s SAS Wide Port , 4 x PCIe Gen 4 x 8 Expansion Slot, 4 x 25GbE LAN Port (optional), 2 x 100GbE QSFP28 LAN Port (optional), 4 x 16Gb Fibre Channel (optional), 4 x 32Gb Fibre Channel (optional)
Data Protection	Snapshot / Replication

JBOD



VS320D-RS12J

2U Dual Active Expander & High Availability JBOD for SMB Storage capacity expansion.

Availability	Fully redundant components for all significant functions, including dual expander with 10 x SAS wide ports , power supplies, fan modules.
Performance	SAS 3 support at 12 Gb/s, with up to 48 Gb/s bandwidth per wide port.
Device	3.5" & 2.5" SAS, NL-SAS, SED HDD 2.5" SAS, SED SSD
Connection	5 x 12Gb/s SAS Wide Port (onboard per expander)
Data Protection	N/A



VS320D-RS80J

4U Dual Active Expander and High-Availability JBOD for high-density enterprise storage expansion with 80 × 3.5-inch drive bays, up to 4 × JBODs for 320 drives and 7.68 PB raw capacity.

Availability	Fully redundant components for all significant functions, including dual expander with 8 x SAS wide ports , power supplies, fan modules.
Performance	SAS 4 support at 24 Gb/s, with up to 96 Gb/s bandwidth per wide port.
Device	3.5" & 2.5" SAS, NL-SAS, SED HDD 2.5" SAS, SED SSD
Connection	4 x 24Gb/s SAS Wide Port (onboard per expander)
Data Protection	N/A

Cooling Solutions

A comprehensive liquid-cooling solution

Deploying high-TDP CPU and GPU servers for demanding workloads poses challenges in building energy-efficient data centers. Liquid-cooling 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.

Top reasons to choose liquid cooling

Performance Density

Exceeds the 30kW-per-rack limit of air cooling, maximizing computational power per square foot to accelerate complex AI workloads.

Strategic ROI & OpEx

Achieves faster ROI through heat recirculation; initial migration costs are often recovered within 12 months via significantly lower utility bills.

Enhanced PUE

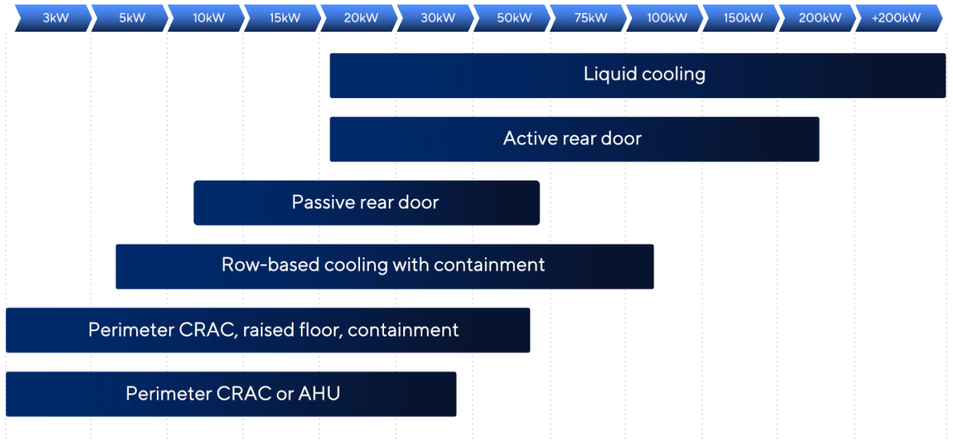
Designed to help improve PUE by replacing power-hungry fans and CRAC systems with high-efficiency liquid heat exchange.

Acoustic Environment

Lowers noise levels from 95 dBA to below 75 dBA, creating a healthier, quieter workspace for enterprise and defense data centers.

Beyond Air Cooling
Liquid Cooling for Demanding AI/HPC Infrastructure

Scaling AI/HPC infrastructure requires a strategic shift to liquid cooling to master high-kW heat removal and sustain full-capacity workloads. By optimizing migration costs and 1-3 years operational expenses, this transition delivers a superior ROI while maximizing performance density per square foot for next-generation computing.



ASUS Optimized Liquid Cooling Solutions

ASUS Optimized Liquid-Cooling Solutions offer a comprehensive portfolio spanning direct-to-chip (D2C), in-row CDU-based cooling, and hybrid configurations, enabled through collaboration with global infrastructure leaders.

Liquid-to-Liquid Cooling (In-Rack)

Directly cools CPUs/GPUs to boost performance, extend hardware lifespan, and slash energy consumption.

Liquid-to-Liquid Cooling (In-Row)

Combines precision chip-level cooling with centralized row control to maximize thermal efficiency and simplify large-scale AI deployment.

Liquid-to-Air Cooling

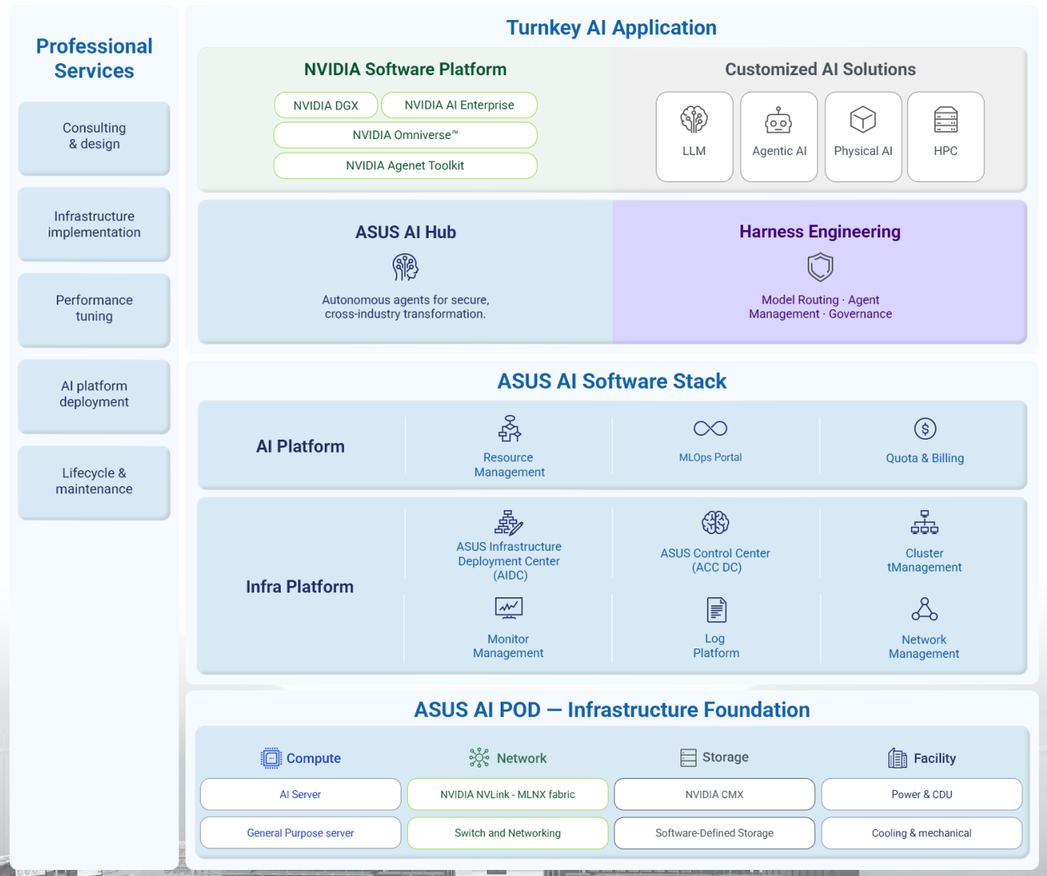
Absorbs system heat via liquid and dissipates it through air, providing a flexible upgrade compatible with existing infrastructure.

From Data to Tokens ASUS AI Factory Delivers Intelligence at Scale



Full-Stack Architecture for Token-Generating AI

ASUS AI Factory unifies hardware, software, and services into one scalablefull-stack architecture — from edge AI to AI supercomputing — accelerating AIadoption and optimize total cost of ownership (TCO). Built on One SoftwareStack, ASUS delivers end-to-end support from consulting to deployment,taking customers from plan to production.

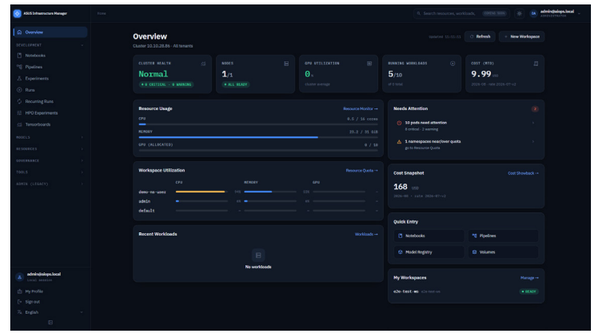


Software Services from Resource Governance to Infrastructure Management

ASUS is committed to not only enabling rapid deployment of your data center but also ensuring its smooth and reliable operation. That's why we oer a comprehensive of tools for utilities and platforms, allowing for one-click deployment and customizable interfaces and services—such as billing—tailored to your specic business needs.

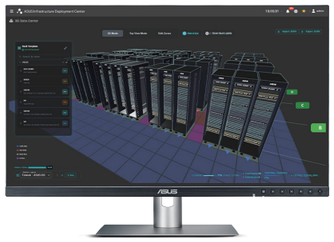
ASUS AI Platform

Combining Harness Engineering, GPU resource management, MLOps, and quota and billing, ASUS AI Platform transforms AI compute and models into manageable, scalable AI services—accelerating AI development, deployment, and commercialization.



ASUS Infrastructure Deployment Center (AIDC)

AIDC is able to deploy full-rack systems in 30 minutes with automated configuration and topology verification.



Learn More about AIDC

ASUS Control Center (ACC) Data Center Edition

ACC Data Center Edition offers centralized management of power sources, telemetry, security, firmware, and event logs.



Learn More about ACC Data Center Edition

Successful Stories



Powering Taiwan's Sovereign AI Ambitions

Project Background

As generative AI and big data redefine global computing, Taiwan's National Center for High-performance Computing (NCHC) set out to build a next-generation AI supercomputer capable of powering large language models, deep learning, and advanced HPC workloads. The project required a breakthrough dual-compute architecture delivering world-class performance while solving the intense thermal challenges of next-generation GPUs. Beyond raw speed, NCHC needed a sustainable, energy-efficient design — one built to support critical national research from climate forecasting to engineering simulation, and to set a new benchmark for AI infrastructure across academia and industry.

Challenge

As a strategic pillar of Taiwan's AI autonomy, this project required ASUS to manage complex partner integrations and cutting-edge technologies under a highly compressed timeline. Supporting national research meant meeting rigorous validation standards — placing immense pressure on technical expertise and large-scale coordination.

Our Solution

As a global core partner of NVIDIA, ASUS deployed a flexible dual-compute environment pairing the NVIDIA GB200 NVL72 with the HGX™ H200 cluster, backed by Direct-to-Chip liquid cooling for extreme thermal density. The ASUS Infrastructure Deployment Center automated setup, cutting deployment from three weeks to three days, while integrating high-reliability storage and validated networking into a stable, production-ready environment for generative AI.

Why ASUS

With decades of server innovation, ASUS goes beyond hardware — our deep software optimization ensures GPU compute is fully unleashed. Having built Forerunner 1 and TAIWANIA 2 for NCHC, ASUS brings a proven track record of delivering high-standard infrastructure that meets Taiwan's rigorous national security and validation requirements.

Scan to read more success stories



Largest Supercomputing Facility in Taiwan

Project Background

In a groundbreaking move to advance the Taiwan AI revolution, Foxlink Group has joined forces with Ubitus to lead its subsidiary, Shinfox Energy, in founding a new company – Ubilink. Together, they are creating Taiwan's largest computing power center with an impressive overall performance of 45.82 PFLOPS, surpassing NVIDIA's estimated theoretical value of 40 PFLOPS. It ranks in the top 31 on the global TOP500 list of supercomputers and has secured a prestigious 44th ranking on the Green500 list that announced in November, 2024. The supercomputing center will offer public cloud services, AI-computing-power rentals and subscription-based cloud services, including PaaS and SaaS, for training large language models. This new data center is also remarkable for handing customers the freedom to choose packages that draw only on renewable energy.

Challenge

Building such a vast and high-performance infrastructure from scratch posed significant challenges. Ensuring the seamless operation and maintenance of this AI supercomputing center was no small feat. Any instability could result in frequent interruptions, driving up operating costs and affecting overall efficiency.

Our Solution

ASUS is fully committed to supporting Ubilink in constructing a global top AI computing center from the ground up. The center will house 128 NVIDIA® H100 servers, equipped with 1,024 GPU cards, making it the largest green-energy-powered, AI-computing service center in Taiwan. Remarkably, this ambitious project was completed in just three months.

Why ASUS

The strategic partnership with ASUS has transformed our vision into reality, allowing Ubilink to build a world-class supercomputing facility that empowers the next wave of AI innovation in Taiwan and beyond. The company's advanced software solutions and comprehensive services have facilitated extraordinary performance achievements in are markable timeframe of just three months.

Scan to read more success stories



Successful Stories



ASUS Establishes National-Level Supercomputing Center, FORERUNNER 1

Project Background

The National Center for High-performance computing (NCHC) plays a leading role in Taiwan's cloud technology services by integrating high performance computing (HPC), storage, and networking to provide cloud services in storage, big data analysis, and scientific and engineering simulation. Forerunner 1 is the latest high-performance computing (HPC) system built by NCHC. The overall optimal performance is approximately 3.5 PFlops (#92 in the Green 500, November 2023). This platform delivers real-time and convenient computing services to industries, universities, and widely applicable to various research fields such as physics, chemistry, mathematics, atmospheric sciences, engineering applications, and life sciences.

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.

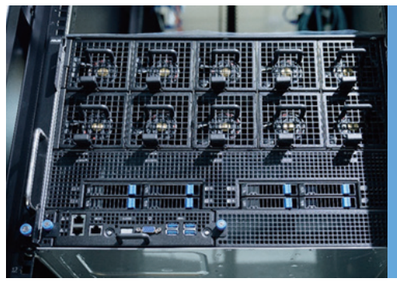
Our Solution

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.

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ASUS ESC N8-E11 Servers Integrated into the FPT AI Factory in Vietnam

Project Background

FPT Corporation, a leading technology and IT services provider in Vietnam, sought to establish a state-of-the-art AI Factory to support its growing demand for AI-driven solutions. The AI Factory aims to accelerate AI research, development, and deployment across diverse industries such as healthcare, finance, and transportation, positioning FPT as a leader in AI innovation in Southeast Asia.

Challenge

To build an AI Factory capable of handling the immense computational demands of training and deploying large-scale AI models, FPT required a server solution that delivered exceptional performance, scalability, and reliability. The infrastructure needed to support high-performance GPUs, optimize energy consumption, and ensure seamless operation even during peak workloads. Additionally, FPT sought a trusted partner to provide expertise in deployment and integration.

Our Solution

ASUS ESC N8-E11 servers equipped with NVIDIA HGX H100 GPUs and powered by 5th Gen Intel Xeon Scalable processors are designed to handle complex AI workloads with high efficiency, offering advanced cooling systems, superior scalability, and support for demanding AI tasks such as LLM training and generative AI. ASUS also provided tailored deployment and validation services to ensure the infrastructure integrated seamlessly into FPT's AI Factory.

Why ASUS

- ASUS's ESC N8-E11 servers offered unparalleled performance, scalability, and energy efficiency, meeting FPT's high computational demands and allows for effortless scaling for user base growth, ensuring the cloud infrastructure can keep pace with increasing demands without needing a complete overhaul.
- ASUS's commitment to providing end-to-end solutions, from hardware to deployment support, ensured a smooth and reliable integration process. This partnership enabled FPT to accelerate its AI initiatives, positioning the AI Factory as a hub for innovation and growth in Vietnam and beyond. Faster training times for complex AI models and smoother handling of large datasets.

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SPECIFICATIONS

Rack Server





model name	RS501A-E12-RS4	RS501A-E12-RS4U	RS501A-E12-RS12U
Processor	1 x Socket SP5 (LGA 6096) AMD EPYC™ 9005/9004 series (Up to 360W)	1 x Socket SP5 (LGA 6096) AMD EPYC™ 9005/9004 series (Up to 450W)	1 x Socket SP5 (LGA 6096) AMD EPYC™ 9005/9004 series (Up to 360W)
Chipset	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)
Memory	24 x DIMM slots 2DPC (1 of 2) up to 5200, 2DPC (2 of 2, 1R+1R) up to 4400, 2DPC (2 of 2, 2R+2R) up to 4000 Maximum 3072GB	24 x DIMM slots 2DPC (1 of 2) up to 5200, 2DPC (2 of 2, 1R+1R) up to 4400, 2DPC (2 of 2, 2R+2R) up to 4000 Maximum 3072GB	24 x DIMM slots 2DPC (1 of 2) up to 5200, 2DPC (2 of 2, 1R+1R) up to 4400, 2DPC (2 of 2, 2R+2R) up to 4000 Maximum 3072GB
VGA	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB
Graphic	Up to 2 single-wide GPU card	Up to 2 single-wide GPU card	Up to 2 single-wide GPU card
Expansion Slots	Up to 3 PCIe Gen5 slots + 1 OCP3.0 1 x PCIe Gen5 x16 (FHHL) 1 x PCIe Gen5 x16 (LPHL) 1 x PCIe Gen5 x8 (LPHL) 1 x OCP3.0 Gen5 x16 (SFF)	Up to 3 PCIe Gen5 slots + 1 OCP3.0 1 x PCIe Gen5 x16 (FHHL) 1 x PCIe Gen5 x16 (LPHL) 1 x PCIe Gen5 x8 (LPHL) 1 x OCP3.0 Gen5 x16 (SFF)	Up to 3 PCIe Gen5 slots + 1 OCP3.0 1 x PCIe Gen5 x16 (FHHL) 1 x PCIe Gen5 x16 (LPHL) 1 x PCIe Gen5 x8 (LPHL) 1 x OCP3.0 Gen5 x16 (SFF)
Storage Bays	4 x 3.5/2.5" Front Hot-swap Storage Bays (Up to 4 x NVMe/ SATA/SAS) *SAS support only from optional SAS HBA/RAID card	4 x 2.5" Front Hot-swap Storage Bays (Up to 4 x NVMe/SATA/SAS) *SAS support only from optional SAS HBA/RAID card	12 x 2.5" Front Hot-Swap drive bays (Up to 12 x NVMe/SATA/SAS) Optional 4 x 2.5" Internal Storage Bays (Up to 4 x NVMe/SATA) *SAS support only from optional SAS HBA/RAID card
Networking	2 x 1GbE LAN ports 1 x Management Port	2 x 1GbE LAN ports 1 x Management Port	2 x 1GbE LAN ports 1 x Management Port
Front I/O ports	2 x USB 3.2 Gen1 ports 1 x VGA port 1 x Power Botton	1 x Power Botton	1 x Power Botton
Rear I/O ports	2 x USB 3.2 Gen1 ports 1 x VGA port 1 x RJ-45 Mgmt LAN port 2 x RJ-45 1GbE LAN ports	2 x USB 3.2 Gen1 ports 1 x VGA port 1 x RJ-45 Mgmt LAN port 2 x RJ-45 1GbE LAN ports	2 x USB 3.2 Gen1 ports 1 x VGA port 1 x RJ-45 Mgmt LAN port 2 x RJ-45 1GbE LAN ports
Security Options	TPM-SPI Module PFR Module	TPM-SPI Module PFR Module	TPM-SPI Module 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)
Dimension	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"	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 1600W 80 PLUS Titanium Power Supply 1+1 Redundant 1200W 80 PLUS Platinum Power Supply	1+1 Redundant 1600W 80 PLUS Titanium Power Supply 1+1 Redundant 1200W 80 PLUS Platinum Power Supply	1+1 Redundant 1600W 80 PLUS Titanium Power Supply 1+1 Redundant 1200W 80 PLUS Platinum Power Supply

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model name	RS500A-E14B-R12U (NEW)	RS500A-E14B-R16U (NEW)	RS521A-E12-RS12U	RS521A-E12-RS24U
Processor	1 x Socket SP8 (LGA 5572) AMD EPYC™ 9006 series (Up to 400W)	1 x Socket SP8 (LGA 5572) AMD EPYC™ 9006 series (Up to 400W)	1 x Socket SP5 (LGA 6096) AMD EPYC™ 9005/9004 series (Up to 400W)	1 x Socket SP5 (LGA 6096) AMD EPYC™ 9005/9004 series (Up to 360W)
Chipset	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)
Memory	16 X DIMM slots DDR5 8000/6400 RDIMM/ 11200 MRDIMM(2DPC) Maximum 2048GB	16 X DIMM slots DDR5 8000/6400 RDIMM/ 11200 MRDIMM(2DPC) Maximum 2048GB	24 x DIMM slots 2DPC (1 of 2) up to 5200, 2DPC (2 of 2, 1R+1R) up to 4400, 2DPC (2 of 2, 2R+2R) up to 4000 Maximum 3072GB	24 x DIMM slots 2DPC (1 of 2) up to 5200, 2DPC (2 of 2, 1R+1R) up to 4400, 2DPC (2 of 2, 2R+2R) up to 4000 Maximum 3072GB
VGA	Aspeed AST2700 64MB	Aspeed AST2700 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB
Graphic	Up to 2 single-wide GPU card	Up to 2 single-wide GPU card	Up to 4 single-slot or 2 double-slot GPU card	Up to 4 single-slot or 2 double-slot GPU card (24x NVMe can't support)
Expansion Slots	Up to 2 PCIe slots +2 OCP3.0 2 x PCIE Gen6 x 16 (FHHL) 2 x OCP 3.0 Gen 6 x 16 (SFF)	Up to 2 PCIe slots + 2 OCP3.0 2 x PCIE Gen6 x 16 (FHHL) 2 x OCP 3.0 Gen 6 x 16 (SFF)	Up to 5 PCIe Gen5 slots 2 x PCIe Gen5 x16, FHFL or 4 x PCIe Gen5 x8 (FHFL) 1 x PCIe Gen5 x8 (LP) 1 x OCP 3.0	Up to 5 PCIe Gen5 slots 2 x PCIe Gen5 x16, FHFL or 4 x PCIe Gen5 x8 (FHFL) 1 x PCIe Gen5 x8 (LP) 1 x OCP 3.0 [24x NVMe] 1 x Pcie Gen5 x8, LP + 1 x OCP3.0 (can't support GPU) [16x NVMe] 2 x PCIe Gen5 x16, FHFL or 4 x PCIe Gen5 x8, FHFL 1 x PCIe Gen5 x8, LP 1 x OCP 3.0
Storage Bays	12 x 2.5"Front Hot-Swap drive bays (Up to 12 x NVMe/SATA/SAS) Mid-bay: 4x E1.S internal bays (On selected model) *SATA/ SAS support only from optional HBA/RAID card	16 x E3.S Hot-Swap drive bays (NVMe)	12 x 3.5"Front Hot-Swap drive bays (Up to 12 NVMe/SATA/SAS) 2 x 2.5 Rear SATA Hot-Swap drive bays *SAS support only from optional SAS HBA/RAID card	24 x 2.5"Front Hot-Swap drive bays (Up to 24 NVMe or 16x NVMe + 8 SATA/SAS) 2 x 2.5 Rear SATA Hot-Swap drive bays *SAS support only from optional SAS HBA/RAID card
Networking	1 x Management Port	1 x Management Port	2 x 1GbE LAN ports 1 x Management Port	2 x 1GbE LAN ports 1 x Management Port
Front I/O ports	1 x Power Botton	2 x USB 3.2 Gen1 ports 1 x Power Botton	2 x USB 3.2 Gen1 ports 1 x Power Botton	2 x USB 3.2 Gen1 ports 1 x Power Botton
Rear I/O ports	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x Management port (RJ45) 1 x UART Type-C	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x Management port (RJ45) 1 x UART Type-C	2 x USB 3.2 Gen1 ports 1 x VGA port 1 x RJ-45 Mgmt LAN port 2 x RJ-45 1GbE LAN ports	2 x USB 3.2 Gen1 ports 1 x VGA port 1 x RJ-45 Mgmt LAN port 2 x RJ-45 1GbE LAN ports
Security Options	Optional TPM module Optional PFR module	Optional TPM module Optional PFR module	TPM-SPI Module PFR Module	TPM-SPI Module PFR Module
Management Solution	ASUS Control Center ASUS ASMB13-iKVM (on-board)	ASUS Control Center ASUS ASMB13-iKVM (on-board)	ASUS Control Center ASUS ASMB11-iKVM (on-board)	ASUS Control Center ASUS ASMB11-iKVM (on-board)
Dimension	800mm x 449mm x 43.85mm (1U) 31.5"x 17.68" x 1.73"	800mm x 449mm x 43.85mm (1U) 31.5"x 17.68" x 1.73"	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"
Power Supply (following different configuration by region)	1+1 Redundant 2000W 80 PLUS Titanium Power Supply	1+1 Redundant 2000W 80 PLUS Titanium Power Supply	1+1 Redundant 2000W/1600W 80 PLUS Titanium Power Supply	1+1 Redundant 2000W/1600W 80 PLUS Titanium Power Supply

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SPECIFICATIONS






	NEW	NEW		
model name	**RS520A-E14B-R12U**	**RS520A-E14B-R24U**	**RS700A-E13-RS4U**	**RS700A-E13-RS12U**
Processor	1 x Socket SP8 (LGA 5572) AMD EPYC™ 9006 Series Processors (Up to 400W)	1 x Socket SP8 (LGA 5572) AMD EPYC™ 9006 Series Processors (Up to 400W)	2 x Socket SP5 (LGA 6096) AMD EPYC™ 9005 Series Processors (Up to 400W)	2 x Socket SP5 (LGA 6096) AMD EPYC™ 9005 Series Processors (Up to 400W)
Chipset	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)
Memory	16 X DIMM slots DDR5 8000/6400 RDIMM/ 11200 MRDIMM(2DPC) Maximum 2048GB	16 X DIMM slots DDR5 8000/6400 RDIMM/ 11200 MRDIMM(2DPC) Maximum 2048GB	24 x DIMM slots DDR5 5600/6400 RDIMM/ 3DS RDIMM(1DPC) Maximum 3072GB	24 x DIMM slots DDR5 5600/6400 RDIMM/ 3DS RDIMM(1DPC) Maximum 3072GB
VGA	Aspeed AST2700 64MB	Aspeed AST2700 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB
Graphic	Up to 3 single-slot or 2 double-slot GPU card	16 NVMe SKU Up to 1 double-slot +1 x single-slot GPU cards 24 NVMe SKU Up to 2 single-slot or 1 double-slot GPU card	N/A	N/A
Expansion Slots	Up to 3 PCIe Gen6 slots 1 x PCIe Gen6 x16 (FHFL) 2 x PCIe Gen6 x8 (FHFL) or 2 x PCIE Gen6 x16 link (FHFL) 2 x OCP 3.0	Up to 3 PCIe Gen6 slots [16 NVMe] 1 x PCIe Gen6 x16 (FHFL) 1 x PCIe Gen6 x8 (FHFL) 2 x OCP 3.0 [24 NVMe] 1 x PCIe Gen6 x16 (FHFL) or 2 x PCIe Gen 6 x8(FHFL) 1 x OCP 3.0	Up to 2 PCIe Gen5 slots + 2 OCP3.0 2 x PCIe x16 slots (Gen5 x16 link, FHHL) 2 x OCP3.0 x16 slots (Gen5 x16 link, SFF)	Up to 2 PCIe Gen5 slots + 2 OCP3.0 2 x PCIe x16 slots (Gen5 x16 link, FHHL) 2 x OCP3.0 x16 slots (Gen5 x16 link, SFF)
Storage Bays	12 x 3.5”or 2.5" Front Hot-Swap drive bays (Up to 12 x NVMe/SATA/SAS) Mid-bay: 4x E1.S internal bays (On selected model) *SATA /SAS support only from optional HBA/RAID card	24 x 2.5” Front Hot-Swap drive bays (Up to 24 NVMe or 16x NVMe + 8 SATA/SAS) *SATA / SAS support only from optional HBA/RAID card	4 x 3.5"/2.5" Front Hot-swap drive bays (Up to 4 x NVMe/SATA/SAS*) *HBA/ RAID card is required to support SATA/SAS hard drives	12 x 2.5" Front Hot-swap drive bays (Config 1: 12 NVMe) (Config 2: 4 SATA/SAS* + 8 NVMe/ SATA/SAS*) *HBA/ RAID card is required to support SATA/SAS hard drives
Networking	1 x Management Port	1 x Management Port	1 x Management port	1 x Management port
Front I/O ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports	N/A
Rear I/O ports	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x Management port (RJ45) 1 x UART Type-C	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x Management port (RJ45) 1 x UART Type-C	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port
Security Options	Optional TPM module Optional PFR module	Optional TPM module Optional PFR module	Dual BMC Module	Dual BMC Module
Management Solution	ASUS Control Center ASUS ASMB13-iKVM (on-board)	ASUS Control Center ASUS ASMB13-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)
Dimension	780 mm x 439.5mm x 87.3mm (2U) 30.7" x 17.3" x 3.4"	800 mm x 439.5mm x 87.3mm (2U) 31.5" x 17.3" x 3.4"	800mm x 449mm x 43.85mm (1U) 31.5" x 17.68" x 1.73"	800mm x 449mm x 43.85mm (1U) 31.5" x 17.68" x 1.73"
Power Supply (following different configuration by region)	1+1 Redundant 2700W/2000W 80 PLUS Titanium Power Supply	1+1 Redundant 2700W/2000W 80 PLUS Titanium Power Supply	1+1 Redundant 2000W 80 PLUS Titanium/Platinum Power Supply	1+1 Redundant 2000W 80 PLUS Titanium/Platinum Power Supply

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	NEW	NEW	NEW	NEW	
model name	**RS700A-E14B-RS4U**	**RS700A-E14B-RS12U**	**RS700A-E14B-RS12G**	**RS700A-E14B-RS16U**	
Processor	2 x Socket SP8 (LGA 5572) AMD EPYC™ 9006 Series Processors (Up to 300W)	2 x Socket SP8 (LGA 5572) AMD EPYC™ 9006 Series Processors (Up to 400W)	2 x Socket SP8 (LGA 5572) AMD EPYC™ 9006 Series Processors (Up to 400W)	2 x Socket SP8 (LGA 5572) AMD EPYC™ 9006 Series Processors (Up to 300W)	
Chipset	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)	
Memory	32 x DIMM slots DDR5 8000/6400 with RDIMM, 11200 with MRDIMM Maximum 4,096GB	32 x DIMM slots DDR5 8000/6400 with RDIMM, 11200 with MRDIMM Maximum 4,096GB	32 x DIMM slots DDR5 8000/6400 with RDIMM, 11200 with MRDIMM Maximum 4,096GB	32 x DIMM slots DDR5 8000/6400 with RDIMM, 11200 with MRDIMM Maximum 4,096GB	
VGA	Aspeed AST2700 64MB	Aspeed AST2700 64MB	Aspeed AST2700 64MB	Aspeed AST2700 64MB	
Graphic	N/A	N/A	Up to 2 single-slot GPU cards	N/A	
Expansion Slots	Up to total 4 expansion slots 2 x PCIe Gen6 x16 (FHHL) 2 x OCP 3.0 Gen6 x16 (SFF)	Up to total 4 expansion slots 2 x PCIe Gen6 x16 (FHHL) 2 x OCP 3.0 Gen6 x16 (SFF)	Up to total 4 expansion slots 2 x PCIe Gen6 x16 (FHHL) 2 x OCP 3.0 Gen6 x16 (SFF)	Up to total 4 expansion slots 2 x PCIe Gen6 x16 (FHHL) 2 x OCP 3.0 Gen6 x16 (SFF)	
Storage Bays	4 x 2.5”/3.5” hot-swap drive bays Up to 4 x NVMe/SATA*/SAS* *HBA/ RAID card is required to support SATA/SAS hard drives 2 x M.2 Gen4 x4 (22110, 2280, 2260)	12 x 2.5”hot-swap drive bays Up to 12 x NVMe/SATA*/SAS* *HBA/ RAID card is required to support SATA/SAS hard drives 2 x M.2 Gen4 x4 (22110, 2280, 2260)	12 x 2.5”hot-swap drive bays Up to 12 x NVMe/SATA*/SAS* *HBA/ RAID card is required to support SATA/SAS hard drives 2 x M.2 Gen4 x4 (22110, 2280, 2260)	16 x EDSFF E3.S hot-swap drive bays Up to 16 x NVMe (PCIe Gen6) 2 x M.2 Gen4 x4 (22110, 2280, 2260)	
Networking	1 x Management port	1 x Management port	1 x Management port	1 x Management port	
Front I/O ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports	N/A	
Rear I/O ports	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug 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 ASMB13-iKVM (on-board)	ASUS Control Center ASUS ASMB13-iKVM (on-board)	ASUS Control Center ASUS ASMB13-iKVM (on-board)	ASUS Control Center ASUS ASMB13-iKVM (on-board)	
Dimension	1U, 449 (W) x 43.85 (H) x 800 (D) mm 17.68 (W) x 1.73 (H) x 31.5 (D) inch	1U, 449 (W) x 43.85 (H) x 800 (D) mm 17.68 (W) x 1.73 (H) x 31.5 (D) inch	1U, 449 (W) x 43.85 (H) x 800 (D) mm 17.68 (W) x 1.73 (H) x 31.5 (D) inch	1U, 449 (W) x 43.85 (H) x 800 (D) mm 17.68 (W) x 1.73 (H) x 31.5 (D) inch	
Power Supply (following different configuration by region)	1+1 Redundant 80 PLUS 2000W Titanium/Platinum PSU	1+1 Redundant 80 PLUS 2000W Titanium/Platinum PSU	1+1 Redundant 80 PLUS 2000W Titanium/Platinum PSU	1+1 Redundant 80 PLUS 2000W Titanium/Platinum PSU	

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SPECIFICATIONS






model name	RS720A-E13-RS8U	RS720A-E13-RS8G	RS720A-E13-RS12U	RS720A-E13-RS24U
Processor	2 x Socket SP5 (LGA 6096) AMD EPYC™ 9005 processors (Up to 500W)	2 x Socket SP5 (LGA 6096) AMD EPYC™ 9005 processors (Up to 400W)	2 x Socket SP5 (LGA 6096) AMD EPYC™ 9005 processors (Up to 400W)	2 x Socket SP5 (LGA 6096) AMD EPYC™ 9005 processors (Up to 400W)
Chipset	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)
Memory	24 x DIMM slots DDR5 5600/6400 RDIMM/ 3DS RDIMM(1DPC) Maximum 3072GB	24 x DIMM slots DDR5 5600/6400 RDIMM/ 3DS RDIMM(1DPC) Maximum 3072GB	24 x DIMM slots DDR5 5600/6400 RDIMM/ 3DS RDIMM(1DPC) Maximum 3072GB	24 x DIMM slots DDR5 5600/6400 RDIMM/ 3DS RDIMM(1DPC) Maximum 3072GB
VGA	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB
Graphic	N/A	Up to 6 single-slot or 3 double-slot GPU cards	N/A	N/A
Expansion Slots	Up to total 10 expansion slots 6 x PCIe Gen5 x8 or 3 x PCIE Gen5 x16 (FHFL) 2 x PCIe Gen5 x16 (FHHL) 2 x OCP3.0 Gen5 x16	Up to total 10 expansion slots 6 x PCIe Gen5 x8 or 3 x PCIE Gen5 x16 (FHFL) 2 x PCIe Gen5 x16 (FHHL) 2 x OCP3.0 Gen5 x16	Up to total 10 expansion slots 6 x PCIe Gen5 x8 or 3 x PCIE Gen5 x16 (FHFL) 2 x PCIe Gen5 x16 (FHHL) 2 x OCP3.0 Gen5 x16	Up to total 10 expansion slots 6 x PCIe Gen5 x8 or 3 x PCIe Gen5 x16 (FHFL) 2 x PCIe Gen5 x16 (FHHL) 2 x OCP3.0 Gen5 x16
Storage Bays	8 x 2.5" Front Hot-swap drive bays (Up to 8 x NVMe/SATA/SAS*) *HBA/ RAID card is required to support SAS hard drives	8 x 2.5" Front Hot-swap drive bays (Up to 8 x NVMe/SATA/SAS*) *HBA/ RAID card is required to support SAS hard drives	12 x 3.5"/2.5" Front Hot-swap drive bays (Config 1: 12NVMe) (Config 2: 4SATA/SAS* + 8NVME/SATA/SAS*) *HBA/ RAID card is required to support SAS hard drives	24 x 2.5" Front Hot-swap drive bays (Up to 8 x NVMe + 16 x NVMe/SATA/SAS*) (with 2 switch boards) *HBA/ RAID card is required to support SAS hard drives
Networking	1 x Management port	1 x Management port	1 x Management port	1 x Management port
Front I/O ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports
Rear I/O ports	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug 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 ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)
Dimension	830mm x 449mm x 88mm (2U) 32.7" x 17.68" x 3.5"	830mm x 449mm x 88mm (2U) 32.7" x 17.68" x 3.5"	830mm x 449mm x 88mm (2U) 32.7" x 17.68" x 3.5"	830mm x 449mm x 88mm (2U) 32.7" x 17.68" x 3.5"
Power Supply (following different configuration by region)	1+1 Redundant 3200W/2700W 80 PLUS Titanium Power Supply	1+1 Redundant 3200W 80 PLUS Titanium Power Supply	1+1 Redundant 3200W/2700W 80 PLUS Titanium Power Supply	1+1 Redundant 3200W/2700W 80 PLUS Titanium Power Supply






model name	RS720A-E13-RS24G	RS720A-E14B-RS12U (NEW)	RS720A-E14B-RS12G (NEW)	RS720A-E14B-RS24U (NEW)
Processor	2 x Socket SP5 (LGA 6096) AMD EPYC™ 9005 processors (Up to 360W)	2 x Socket SP8 (LGA 5572) AMD EPYC™ 9006 Series Processors (Up to 300W)	2 x Socket SP8 (LGA 5572) AMD EPYC™ 9006 Series Processors (Up to 300W)	2 x Socket SP8 (LGA 5572) AMD EPYC™ 9006 Series Processors (Up to 400W)
Chipset	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)
Memory	24 x DIMM slots DDR5 5600/6400 RDIMM/ 3DS RDIMM(1DPC) Maximum 3072GB	32 x DIMM slots DDR5 8000/6400 with RDIMM, 11200 with MRDIMM Maximum 4,096GB	32 x DIMM slots DDR5 8000/6400 with RDIMM, 11200 with MRDIMM Maximum 4,096GB	32 x DIMM slots DDR5 8000/6400 with RDIMM, 11200 with MRDIMM Maximum 4,096GB
VGA	Aspeed AST2600 64MB	Aspeed AST2700 64MB	Aspeed AST2700 64MB	Aspeed AST2700 64MB
Graphic	Up to 6 single-slot or 3 double-slot GPU cards	N/A	Up to 3 dual-slot GPU cards	N/A
Expansion Slots	Up to total 10 expansion slots 6 x PCIe Gen5 x8 or 3 x PCIe Gen5 x16 (FHFL) 2 x PCIe Gen5 x16 (FHHL) 2 x OCP3.0 Gen5 x16	Up to total 10 expansion slots 6 x PCIe Gen6 x8 or 3 x PCIe Gen6 x16 (FHFL) (Default is 3 x PCIe Gen6 x16 FHFL) 2 x PCIe Gen6 x16 (FHHL) 2 x OCP 3.0 Gen6 x16 (SFF)	Up to total 10 expansion slots 6 x PCIe Gen6 x8 or 3 x PCIe Gen6 x16 (FHFL) (Default is 3 x PCIe Gen6 x16 FHFL) 2 x PCIe Gen6 x16 (FHHL) 2 x OCP 3.0 Gen6 x16 (SFF)	Up to total 9 expansion slots 6 x PCIe Gen6 x8 or 3 x PCIe Gen6 x16 (FHFL) (Default is 3 x PCIe Gen6 x16 FHFL) 1 x PCIe Gen6 x16 (FHHL) 2 x OCP 3.0 Gen6 x16 (SFF)
Storage Bays	24 x 2.5" Front Hot-swap drive bays (Up to 8 x NVMe + 16 x NVMe/SATA/SAS*) (with 2 switch boards) *HBA/ RAID card is required to support SAS hard drives	12 x 2.5"/3.5" hot-swap drive bays Up to 12 x NVMe/SATA*/SAS* *HBA/ RAID card is required to support SATA/SAS hard drives 2 x M.2 Gen4 x4 (22110, 2280, 2260)	12 x 2.5" hot-swap drive bays Up to 12 x NVMe/SATA*/SAS* *HBA/ RAID card is required to support SATA/SAS hard drives 2 x M.2 Gen4 x4 (22110, 2280, 2260)	24 x 2.5" hot-swap drive bays Up to 24 x NVMe/SATA*/SAS* *HBA/ RAID card is required to support SATA/SAS hard drives 2 x M.2 Gen4 x4 (22110, 2280, 2260)
Networking	1 x Management port	1 x Management port	1 x Management port	1 x Management port
Front I/O ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports
Rear I/O ports	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug 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 ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB13-iKVM (on-board)	ASUS Control Center ASUS ASMB13-iKVM (on-board)	ASUS Control Center ASUS ASMB13-iKVM (on-board)
Dimension	830mm x 449mm x 88mm (2U) 32.7" x 17.68" x 3.5"	822.16 x 484.65mm x 87.3mm (2U) 32.37" x 19.08" x 3.44"	822.16 x 484.65mm x 87.3mm (2U) 32.37" x 19.08" x 3.44"	822.16 x 484.65mm x 87.3mm (2U) 32.37" x 19.08" x 3.44"
Power Supply (following different configuration by region)	1+1 Redundant 3200W 80 PLUS Titanium Power Supply	1+1 Redundant 3200W/2700W 80 PLUS Titanium Power Supply	1+1 Redundant 3200W 80 PLUS Titanium Power Supply	1+1 Redundant 3200W/2700W 80 PLUS Titanium Power Supply

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SPECIFICATIONS






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model name	RS720A-E14B-RS24G	RS720A-E14B-RS32U	RS300-E12-RS4	RS300-E12-PS4
Processor	2 x Socket SP8 (LGA 5572) AMD EPYC™ 9006 Series Processors (Up to 300W)	2 x Socket SP8 (LGA 5572) AMD EPYC™ 9006 Series Processors (Up to 400W)	1 x Socket V (LGA 1700) Intel® Xeon® E-2400 series processor Intel® Xeon® 6300-series processor (Up to 95W)	1 x Socket V (LGA 1700) Intel® Xeon® E-2400 series processor Intel® Xeon® 6300-series processor (Up to 95W)
Chipset	System on Chip (SoC)	System on Chip (SoC)	Intel® C262	Intel® C262
Memory	32 x DIMM slots DDR5 8000/6400 with RDIMM, 11200 with MRDIMM Maximum 4,096GB	32 x DIMM slots DDR5 8000/6400 with RDIMM, 11200 with MRDIMM Maximum 4,096GB	4 x DIMM slots DDR5 4800/5600 ECC UDIMM Maximum 128GB	4 x DIMM slots DDR5 4800/5600 ECC UDIMM Maximum 128GB
VGA	Aspeed AST2700 64MB	Aspeed AST2700 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB
Graphic	Up to 3 dual-slot GPU cards	N/A	-	-
Expansion Slots	Up to total 9 expansion slots 6 x PCIe Gen6 x8 or 3 x PCIe Gen6 x16 (FHFL) (Default is 3 x PCIe Gen6 x16 FHFL) 1 x PCIe Gen6 x16 (FHHL) 2 x OCP 3.0 Gen6 x16 (SFF)	Up to total 5 expansion slots 2 x PCIe Gen6 x8 or 1 x PCIe Gen6 x16 (FHFL) (Default is 1 x PCIe Gen6 x16 FHFL) 1 x PCIe Gen6 x16 (FHHL) 2 x OCP 3.0 Gen6 x16 (SFF)	Up to 3 slots 1 x PCIe x16 (Gen5 x16 link, FHHL) 1 x PCIe x8 (Gen5 x8 link, HHHL) 1 x PCIe x4 (Gen4 x4 Link), Proprietary R/A slot	Up to 3 slots 1 x PCIe x16 (Gen5 x16 link, FHHL) 1 x PCIe x8 (Gen5 x8 link, HHHL) 1 x PCIe x4 (Gen4 x4 Link), Proprietary R/A slot
Storage Bays	24 x 2.5" hot-swap drive bays Up to 24 x NVMe/SATA*/SAS* *HBA/ RAID card is required to support SATA/SAS hard drives 2 x M.2 Gen4 x4 (22110, 2280, 2260)	32 x EDSFF E3.S hot-swap drive bays Up to 32 x NVMe (PCIe Gen6) 2 x M.2 Gen4 x4 (22110, 2280, 2260)	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	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
Networking	1 x Management port	1 x Management port	2 x 1GbE LAN port(Intel® I210AT) 1 x Management Port	2 x 1GbE LAN port(Intel® I210AT) 1 x Management Port
Front I/O ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports	1 x VGA port 2 x USB 3.2 Gen2 ports	1 x VGA port 2 x USB 3.2 Gen2 ports
Rear I/O ports	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	3 x USB 3.2 Gen 2 ports 1 x VGA port 1 x COM port 1 x RJ-45 ports	3 x USB 3.2 Gen 2 ports 1 x VGA port 1 x COM port 1 x RJ-45 ports
Security Options	Optional TPM module Optional PFR module	Optional TPM module Optional PFR module	-	-
Management Solution	ASUS Control Center ASUS ASMB13-iKVM (on-board)	ASUS Control Center ASUS ASMB13-iKVM (on-board)	ASUS Control Center ASUS ASMB11-iKVM (Optional)	ASUS Control Center ASUS ASMB11-iKVM (Optional)
Dimension	822.16 x 484.65mm x 87.3mm (2U) 32.37" x 19.08" x 3.44"	822.16 x 484.65mm x 87.3mm (2U) 32.37" x 19.08" x 3.44"	497mm x 439.5mm x 44mm (1U)	497mm x 439.5mm x 44mm (1U)
Power Supply (following different configuration by region)	1+1 Redundant 3200W 80 PLUS Titanium Power Supply	1+1 Redundant 3200W/2700W 80 PLUS Titanium Power Supply	1+1 Redundant 450W 80 PLUS PLATINUM Power Supply	Single 350W 80 PLUS Gold Power Supply

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model name	RS700-E12-RS4U	RS700-E12-RS12U	RS720-E12-RS8G	RS720-E12-RS12U
Processor	Dual Intel® Xeon® 6 Processors Family (Up to 350W)	Dual Intel® Xeon® 6 Processors Family (Up to 350W)	Dual Intel® Xeon® 6 Processors Family (Up to 350W)	Dual Intel® Xeon® 6 Processors Family (Up to 350W)
Chipset	N/A	N/A	N/A	N/A
Memory	32 x DIMM slots DDR5 6400 RDIMM/3DS Maximum 8TB	32 x DIMM slots DDR5 6400 RDIMM/3DS Maximum 8TB	32 x DIMM slots DDR5 6400 RDIMM/3DS Maximum 8TB	32 x DIMM slots DDR5 6400 RDIMM/3DS Maximum 8TB
VGA	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB
Graphic	N/A	N/A	Up to 6 single-slot or 3 double-slot GPU cards	N/A
Expansion Slots	Up to 2 PCIe Gen5 slots + 2 OCP3.0 2 x PCIe x16 slots (Gen5 x16 link, FHHL) 2 x OCP3.0 x8 slots (Gen5 x16 link, SFF)	Up to 2 PCIe Gen5 slots + 2 OCP3.0 2 x PCIe x16 slots (Gen5 x16 link, FHHL) 2 x OCP3.0 x8 slots (Gen5 x16 link, SFF)	Up to 8 PCIe Gen5 slots + 2 OCP3.0 6 x PCIe x8 slots or 3 x PCIe x16 slots 2 x PCIe x16 slots (Gen5 x16 link, FHFL) 2 x OCP3.0 x8 slots (Gen5 x16 link, SFF)	Up to 8 PCIe Gen5 slots + 2 OCP3.0 6 x PCIe x8 slots or 3 x PCIe x16 slots 2 x PCIe x16 slots (Gen5 x16 link, FHFL) 2 x OCP3.0 x8 slots (Gen5 x16 link, SFF)
Storage Bays	4 x 3.5" Front Hot-swap drive bays Support to 4 x NVMe/SATA*/SAS* *: HBA/ RAID card is required to support SATA and SAS hard drives	12 x 3.5" Front Hot-swap drive bays Support to 12 x NVMe/SATA*/SAS* *: HBA/ RAID card is required to support SATA and SAS hard drives	8 x 2.5" Front Hot-swap drive bays Support to 8 x NVMe or 8 SATA*/SAS* *: HBA/ RAID card is required to support SATA and SAS hard drives	12 x 2.5"/3.5" Front bays hot-swap bay Support to 12 x NVMe or 12 SATA*/SAS* *: HBA/ RAID card is required to support SATA and SAS hard drives
Networking	1 x Management port	1 x Management port	1 x Management port	1 x Management port
Front I/O ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports
Rear I/O ports	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug porta	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port
Security Options	Dual BMC Module	Dual BMC Module	Dual BMC Module	Dual BMC Module
Management Solution	ASUS Control Center ASUS ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)
Dimension	800mm x 449mm x 43.85mm (1U) 31.5" x 17.68" x 1.73"	800mm x 449mm x 43.85mm (1U) 31.5" x 17.68" x 1.73"	830mm x 449mm x 88mm (2U) 32.7" x 17.68" x 3.5"	830mm x 449mm x 88mm (2U) 32.7" x 17.68" x 3.5"
Power Supply (following different configuration by region)	1+1 Redundant 2000W 80 PLUS Titanium/Platinum Power Supply	1+1 Redundant 2000W 80 PLUS Titanium/Platinum Power Supply	1+1 Redundant 3200W 80 PLUS Titanium Power Supply	1+1 Redundant 3200W/2700W 80 PLUS Titanium Power Supply

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SPECIFICATIONS

High Density Servers





model name	RS720-E12-RS24U	RS720-E12-RS24G	RS520QA-E13-RS8U
Processor	Dual Intel® Xeon® 6 Processors Family (Up to 350W)	Dual Intel® Xeon® 6 Processors Family (Up to 350W)	Per node: 1 x Socket SP5 (LGA 6096) AMD EPYC™ 9005 Series Processors (Up to 500W)
Chipset	N/A	N/A	System on Chip (SoC)
Memory	32 x DIMM slots DDR5 6400 RDIMM/3DS Maximum 8TB	32 x DIMM slots DDR5 6400 RDIMM/3DS Maximum 8TB	Per node: 12+8 x DIMM slots DDR5 up to 6400 RDIMM (1DPC) CXL Module DIMM Expansion: 4 x or 8 x RDIMMs 2DPC (DDR5 up to 4400) Maximum 2560GB
VGA	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB
Graphic	N/A	Up to 6 single-slot or 3 double-slot GPU cards	N/A
Expansion Slots	Up to 8 PCIe Gen5 slots + 2 OCP3.0 6 x PCIe x8 slots or 3 x PCIe x16 slots (Gen5 x16 link, FHFL) 2 x PCIe x16 slots (Gen5 x16 link, FHHL) 2 x OCP3.0 x8 slots (Gen5 x16 link, SFF)	Up to 8 PCIe Gen5 slots + 2 OCP3.0 6 x PCIe x8 slots or 3 x PCIe x16 slots (Gen5 x16 link, FHFL) 2 x PCIe x16 slots (Gen5 x 16 link, FHHL) 2 x OCP3.0 x8 slots (Gen5 x16 link, SFF)	Per node: Up to 2 slots 1 x PCIe x16 slot (Gen5 x16 link, HHHL) 1 x OCP 3.0 NIC socket (Gen5 x16 link)
Storage Bays	24 x 2.5" Front Hot-swap drive bays Support to 24 x NVMe or 24 SATA*/SAS* (NVMe support though 2pcs switch boards) *HBA/ RAID card is required to support SATA and SAS hard drives	24 x 2.5" Front Hot-swap drive bays Support to 24 x NVMe or 24 SATA*/SAS* (NVMe support though 2pcs switch boards) *HBA/ RAID card is required to support SATA and SAS hard drives	8 x 2.5" Front Hot-Swap drive bays (Up to 8x NVMe/SATA/SAS*) 8 x M.2 (Up to 2280, PCIe Gen5x4) *Raid card is required to support SAS hard drives
Networking	1 x Management port	1 x Management port	Per node: 1 x Management port
Front I/O ports	2 x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports	N/A
Rear I/O ports	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Management LAN port 1 x Debug port	Per node: 2 x USB 3.2 Gen1 ports 1 x VGA port 1 x RJ-45 Mgmt LAN port
Security Options	Dual BMC Module	Dual BMC Module	Optional TPM module Optional PFR module
Management Solution	ASUS Control Center ASUS ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)
Dimension	830mm x 449mm x 88mm (2U) 32.7" x 17.68" x 3.5"	830mm x 449mm x 88mm (2U) 32.7" x 17.68" x 3.5"	900mm x 446mm x 87.2mm (2U) 35.43" x 17.56" x 3.43"
Power Supply (following different configuration by region)	1+1 Redundant 3200W/2700W 80 PLUS Titanium Power Supply	1+1 Redundant 3200W 80 PLUS Titanium Power Supply	2+Spare 3200W 80 PLUS Titanium Power Supply

GPU Servers






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model name	XR R1I12B-M1BLFS compute tray - XA NR1I-E12LR	XR R1I12B-M1BHFS compute tray - XA NR1I-E12L	XA NB3I-E12	XA AM3A-E13
Processor	2 x LGA4710 socket for Intel® Xeon® 6 processors (Up to 350W)	2 x LGA4710 socket for Intel® Xeon® 6 processors (Up to 350W)	2 x LGA4710 sockets for Intel® Xeon® 6 processors* (Up to 350W)	2 x Socket SP5 (LGA 6096) AMD EPYC™ 9005/9004 Series Processors (Up to 400W cTDP, TDP support varies by configuration)
Chipset	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)
Memory	32 x DIMM slots DDR5 6400/6000 RDIMM/3DS Maximum 4096GB	32 x DIMM slots DDR5 6400/6000 RDIMM/3DS Maximum 4096GB	32 x DIMM slots DDR5 6400/5600 RDIMM (2DPC) Maximum 4TB per socket	24 x DIMM slots DDR5 6400/5600 RDIMM 128GB, 96GB, 64GB RDIMM (1DPC) Maximum 3TB
VGA	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB
Graphic	NVIDIA HGX™ Rubin	NVIDIA HGX™ Rubin	NVIDIA HGX™ B300	MI355X Baseboard
Expansion Slots	1 x PCIe Gen6 x16 (FH, FL) - for NVIDIA B4240L DPU	Up to 2 PCIe Gen5 slots 2 x PCIe Gen5 x16 slots (FH. 3/4L)	SKU1: 4 x PCIe Gen5 slots [PCIe Switch directly] -4 x PCIe Gen5 x16 link SKU2: 5 x PCIe Gen5 slots [PCIe Switch directly] -4 x PCIe Gen5 x16 link -1 x PCIe Gen5 x8 link (Raid Only) *Support PCIe x16 link support DPU ** For Raid card to connect storage	Up to 11 PCIe slots [89104 PCIe Switch directly] -8x PCIe Gen5 x16 (LP, HL) [89048 PCIe Switch directly] -1x PCIe Gen5 x16 (FH, HL) -1x PCIe Gen5 x8 (FH, HL) [CPU directly] -1x PCIe Gen5x16 (FH, HL)
Storage Bays	8 x E1.S	8 x 2.5" NVMe Front Hot-swap drive bays (E1.S design reserve)	10x 2.5" Front Hot-Swap drive bays (NVMe only) SKU2 only: RAID card required for NVMe support in bays 1-2	10 x 2.5" hot-swap bays 8 x NVMe + 2 x NVMe/SATA*/SAS* *HBA/ RAID card is required to support SAS hard drives 2 x M.2 Gen5 x4 (22110, 2280, 2260)
Networking	1 x BF4 (NDR, ETH 2 x 400G) 8 x 800Gb OSFP 1 x Management Port	2 x 10GbE LAN port 1 x BF4 (NDR, ETH 2 x 400G) 8 x 800Gb OSFP 1 x Management port	2 x 10GbE LAN ports 1 x Management port	1 x Management Port 2 x 10Gb RJ45 LAN module (Intel-x710 Based)
Front I/O ports	1 x Power Button 1 x Locate Button 1 x BMC RST Button 1 x MCIO USB 1 x Management Lan 1 x USB3.2 1 x Mini DP port 1 x 1G Lan port	1 x Power Button 1 x Locate Button 1 x Debug Console (Audio Jack) 1 x Management Lan 2 x USB3.2 Gen1 1 x Mini DP port 2 x 10G Lan port	2 x USB 5Gbps ports 1 x VGA port 2 x RJ-45 LAN ports 1 x RJ-45 Management port	4 x USB3.2 Gen1 ports, 1 x VGA port 2 x 10Gb RJ45 LAN module (Intel-x710 Based) 1 x Mgmt LAN
Rear I/O ports	N/A	N/A		N/A
Security Options	Optional TPM module	Optional TPM module	Optional TPM module	Optional TPM module
Management Solution	ASUS Control Center ASUS ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)	On-Board ASM11-iKVM for KVM-over-IP
Dimension	800mm x 448mm x 87mm (2U) 31.50" x 17.64" x 3.43"	800mm x 449.6mm x 131.35mm (3U) 31.5" x 17.70" x 5.17"	945mm x 447mm x 394.5 mm (9U) 37.2"x 17.5"x 15.5"	447mm x 885mm x 435.95mm (10U)
Power Supply (following different configuration by region)	48-54VDC	48-54VDC	5+5 Redundant 3200W 80 PLUS Titanium Power Supply	6+2 Redundant 3200W 80 PLUS Titanium Power Supply

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SPECIFICATIONS






NEW

model name	ESC4000A-E12	ESC4000-E11	XA P2N-E2	ESC8000A-E13
Processor	1 x Socket SP5 (LGA 6096) AMD EPYC™ 9005/9004 Series Processors (Up to 400W)	2 x Socket (LGA 4677) 5th Gen Intel® Xeon® Scalable Processors Family 4th Gen Intel® Xeon® Scalable Processors Family (Up to 350w)	2 x Onboard NVIDIA Vera Processors (Up to 480W)	2 x Socket SP5 (LGA 6096) AMD EPYC™ 9005/9004 Series Processors (Up to 500W cTDP, TDP support varies by configuration)
Chipset	System on Chip (SoC)	Intel® C741	System on Chip (SoC)	System on Chip (SoC)
Memory	12 x DIMM slots DDR5 4800/4400/5600/6400 RDIMM/3DS RDIMM (1DPC) Maximum 3TB	16 x DIMM slots DDR5 4800/4400/5600/6400 RDIMM/3DS RDIMM(2DPC) Maximum 4TB	16 x SOCAMM2 LPDDR5X 9600 MT/s Maximum 1.5TB	24 x DIMM slots DDR5 6400/5600 RDIMM (1DPC) Maximum 3072GB
VGA	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB
Graphic	Up to 4 dual-slot GPU cards	Up to 4 dual-slot GPU cards	Up to 2 dual-slot GPU cards	Up to 8 dual-slot GPU cards
Expansion Slots	Front: 1 x PCIe x8 slot (Gen5 x8 link, LP) Only for SKU1 Rear: 4 x PCIe x16 slots (Gen5 x16 link, FHFL) for dual-slot GPU cards or 8 x PCIe x16 slots (Gen5 x8 link, FHFL) for single-slot GPU cards 1 x PCIe x16 slots (Gen5 x16 link, FHHL) 1 x PCIe x16 slot (Gen5 x16/x8 link, FHHL) or OCP socket option 1 x PCIe x8 slot (Gen5 x0/x8 link, LP)	Front: 1 x PCIe x8 slot (Gen4 x8 link, LPHL) Only for SKU1 Rear: 4 x PCIe x16 slots (Gen5 x16 link, FHFL) for dual-slot GPU cards or 8 x PCIe x16 slots (Gen5 x8 link, FHFL) for single-slot GPU cards 2 x PCIe x16 slots (Gen5 x16 link, FHHL)	Rear: 2 x PCIe x16 slots (Gen6 x16 link, FHFL) for dual-slot GPU cards 1 x PCIe x16 slots (Gen6 x16 link, FHFL) for DPU/NIC 2 x PCIe x16 slots (Gen6 x16 link, HHFL) for NIC	Front: Optional: 1 x PCIe x16 (Gen5 x8 link, FHHL) for RAID/HBA card Rear: 8 x PCIe x16 (Gen5 x16 link, FHFL) for dual-slot GPU card (up to 600W) 1 x PCIe x16 (Gen5 x16 link, FHHL) for NIC/BlueField-3 card 1 x PCIe x16 (Gen5 x8 link, FHHL) for NIC card
Storage Bays	2 x 2.5" & 4 x 3.5" Front Hot-Swap drive bays SKU1: 2 x 2.5" NVMe/SATA/SAS*+ 2 x 3.5" NVMe/SATA/SAS* + 2 x 3.5 " SATA/SAS* SKU2: 2 x 2.5" NVMe/SATA/SAS* + 4 x 3.5" NVMe/SATA/SAS* (Occupy 1 x PCIe x8 link) **RAID card is required to support SAS hard drives **For SKU1 additional 2 x NVMe support required a RAID card	SKU-1:2 x 2.5" NVMe/SATA/SAS* + 2 x3.5" SATA/SAS*/NVMe + 2 x 3.5" SATA/ SAS* SKU-2:2 x 2.5" NVMe/SATA/SAS* + 4 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 **For SKU1 additional 2 x NVMe support required a RAID card	Front: 8 x E1.S hot-swap drive bays	8 x 2.5" Front Hot-Swap drive bays SKU1: (W/ RAID) up to 6 NVMe based on HBA/RAID installed SKU2: (W/O RAID) up to 2 NVMe direct attached to CPU
Networking	2 x 1GbE LAN ports 1 x Management port	2 x 1GbE LAN ports 1 x Management port	1 x Management port	1 x Management port
Front I/O ports	2x USB 3.2 Gen1 ports	2 x USB 3.2 Gen1 ports	N/A	1 x Mini DisplayPort 2 x USB 5Gbps ports 1 x Debug port
Rear I/O ports	2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 1GbE LAN ports 1 x Management port	2 x USB 3.2 Gen1 ports 1 x VGA port 2 x 1GbE LAN ports	1 x USB Type-C port 1 x USB Type-C ports for UART 1 x RJ45 management LAN port	1 x USB 5Gbps port 1 x RJ-45 management LAN port
Security Options	Optional TPM module	Optional TPM module	-	Optional TPM module
Management Solution	ASUS Control Center ASUS ASMB11-iKVM (on-board)	ASUS Control Center ASUS ASMB11-iKVM (on-board)	ASUS Control Center	ASUS Control Center ASUS ASMB12-iKVM (on-board)
Dimension	800mm x 439.5mm x 88.9mm (2U) 31.5" x 17.3" x 3.5"	800mm x 439.5mm x 88.9mm (2U) 31.5" x 17.3" x 3.5"	900mm x 440mm x 87mm (2U) 35.43" x 17.32" x 3.43"	800mm x 439.5mm x 175 mm (4U) 31.5"x17.3"x 6.9
Power Supply (following different configuration by region)	1+1 Redundant 2600W 80 PLUS Titanium Power Supply	1+1 Redundant 2600W 80 PLUS Titanium Power Supply	2+2 Redundant 2000W 80 PLUS Titanium Power Supply	3+1 Redundant 3200W 80 PLUS Titanium Power Supply

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NEW

model name	ESC8000A-E13P	ESC8000A-E13X	ESC8000-E12	ESC8000-E12P
Processor	2 x Socket SP5 (LGA 6096) AMD EPYC™ 9005/9004 Series Processors (Up to 500W cTDP, TDP support varies by configuration)	2 x Socket SP5 (LGA 6096) AMD EPYC™ 9005 Series Processors (Up to 500W cTDP, TDP support varies by configuration)	2 x LGA4710 sockets for Intel® Xeon® 6 processors* (Up to 350W)	2 x LGA4710 sockets for Intel® Xeon® 6 processors* (Up to 350W)
Chipset	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)
Memory	24 x DIMM slots DDR5 6400/5600 RDIMM (1DPC) Maximum 3072GB	24 x DIMM slots DDR5 6400/5600 RDIMM (1DPC) Maximum 3072GB	32 x DIMM slots DDR5 6400/5600 RDIMM (2DPC) Maximum 8TB per socket	32 x DIMM slots DDR5 6400/5600 RDIMM (2DPC) Maximum 4TB per socket
VGA	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB	Aspeed AST2600 64MB
Graphic	Up to 8 dual-slot GPU cards	Up to 8 dual-slot GPU cards (NVIDIA RTX PRO 6000 BSE only)	Up to 8 dual-slot GPU cards	Up to 8 dual-slot GPU cards
Expansion Slots	Front: 1 x PCIe x16 (Gen5 x8 link, FHHL) Rear: 8 x PCIe x16 for dual-slot GPU cards up to 600W(Gen5 x16 link, FHFL) 5 x PCIe x16 for NIC/BlueField-3 cards (Gen5 x16 link, FHHL)	Front: 1 x PCIe x16 (Gen5 x8 link, FHHL) Rear: 8 x PCIe x16 for dual-slot GPU cards up to 600W (Gen6 x16 link, FHFL) 1 x PCIe x16 for NIC/DPU (Gen5 x16 link, FHHL)	SKU1: (W/ RAID) 8 x PCIe x16 for dual-slot GPU cards up to 600W(Gen5 x16 link, FHFL), 1 x PCIe x8 for HBA/RAID card (Gen5 x8 link, FHHL), 1 x PCIe x16 for NIC/BlueField-3 card (Gen5 x16 link, FHHL), 1 x PCIe x8 for NIC card (Gen5 x8 link, FHHL) SKU2: (W/O RAID) 8 x PCIe x16 for dual-slot GPU cards up to 600W(Gen5 x16 link, FHFL) 1 x PCIe x16 for NIC/BlueField-3 card (Gen5 x16 link, FHHL), 1 x PCIe x8 for NIC card (Gen5 x8 link, FHHL)	Front: 1 x PCIe x8 (Gen5 x8 link, FHHL) Rear: 8 x PCIe x16 for dual-slot GPU cards up to 600W(Gen5 x16 link, FHFL) 5 x PCIe x16 for NIC/BlueField-3 cards (Gen5 x16 link, FHHL)
Storage Bays	Up to 8 x 2.5" Front Hot-Swap drive bays 2 x M.2 support (Gen5 x4 link, up to 22110)	Up to 8 x 2.5" Front Hot-Swap drive bays 2 x M.2 support (Gen5 x4 link, up to 22110)	8 x 2.5" Front Hot-swap Storage Bays SKU1: (W/ RAID) up to 6 NVMe based on HBA/RAID installed 2 x M.2 socket (Gen 5 x4 link, up to 22110) SKU2: (W/O RAID) up to 4 NVMe direct attached to CPU	Up to 8 x 2.5" Front Hot-Swap drive bays 2 x M.2 support (Gen5 x4 link, up to 22110)
Networking	2 x 10GbE LAN ports (RJ45, X710-AT2) 1 x Management port	8 x 400Gbps QSFP ports 2 x 10GbE LAN ports (RJ45, X710-AT2) 1 x Management port	1 x Management port	2 x 10GbE LAN ports 1 x Management port
Front I/O ports	1 x Mini DisplayPort 2 x USB 5Gbps ports 1 x Debug port	1 x Mini DisplayPort 2 x USB 5Gbps ports 1 x Debug port	1 x Mini DisplayPort 2 x USB 5Gbps ports 1 x Debug port	1 x Mini DisplayPort 2 x USB 5Gbps ports 1 x Debug port
Rear I/O ports	1 x USB 5Gbps port 2 x RJ-45 LAN ports 1 x RJ-45 management LAN port	8 x 400Gbps QSFP ports 1 x USB 5Gbps port 2 x RJ-45 LAN ports 1 x RJ-45 management LAN ports	1 x USB 5Gbps port 1 x RJ-45 management LAN port	1 x USB 5Gbps port 2 x RJ-45 LAN ports 1 x RJ-45 management LAN port
Security Options	Optional TPM module	Optional TPM module	Optional TPM module	Optional TPM module
Management Solution	ASUS Control Center ASUS ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)	ASUS Control Center ASUS ASMB12-iKVM (on-board)
Dimension	800mm x 439.5mm x 175 mm (4U) 31.5"x17.3"x 6.9"	800mm x 439.5mm x 175 mm (4U) 31.5"x17.3"x 6.9"	800mm x 439.5mm x 175 mm (4U) 31.5"x17.3"x 6.9	800mm x 439.5mm x 175 mm (4U) 31.5"x17.3"x 6.9"
Power Supply (following different configuration by region)	3+1 Redundant 3200W 80 PLUS Titanium Power Supply	3+1 Redundant 3200W 80 PLUS Titanium Power Supply	3+1 Redundant 3200W 80 PLUS Titanium Power Supply	3+1 Redundant 3200W 80 PLUS Titanium Power Supply

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SPECIFICATIONS

Storage Solutions







model name	VS320D-RS12	VS320D-RS12U	VS320D-RS26N
		NEW	NEW
Processor	Per Controller: Intel®Xeon® 64-bit 4-core	Per Controller: Intel®Xeon® 64-bit 4-core	Intel® Xeon® 64-bit 12-core x 2
Chipset			
Memory	Per Controller: 4 x DIMM slots DDR4 3200 ECC UDIMM Maximum 256GB	Per Controller: 4 x DIMM slots DDR4 3200 ECC UDIMM Maximum 256GB	16 x DIMM slots DDR4 ECC DIMM Maximum 2048GB
VGA	N/A	N/A	N/A
Graphic	N/A	N/A	N/A
Expansion Slots	Per Controller: 2 x PCIe Gen 3x8	Per Controller: 2 x PCIe Gen 3x8	Per Controller: 2 x PCIe Gen 4x8
Storage Bays	12 x 3.5"/2.5" Hot-swap drive bays Drive Interface: SAS 12Gb/s Maximum Drive Bays with Expansion Unit: 324 Bays Maximum Internal Raw Capacity: 288 TB (calculate 24 TB HDD) Maximum Raw Capacity with Expansion Units: 7,776 TB (calculate 24 TB HDD)	12 x 3.5"/2.5" Hot-swap drive bays Drive Interface: SAS 12Gb/s Maximum Drive Bays with Expansion Unit: 324 Bays Maximum Internal Raw Capacity: 288 TB (calculate 24 TB HDD) Maximum Raw Capacity with Expansion Units: 7,776 TB (calculate 24 TB HDD)	26 x 2.5" Hot-swap drive bays Drive Interface: U.2 NVMe (PCIe Gen 4) SSD / SAS 12Gb/s SSD Maximum Drive Bays with Expasion Unit: 338 Bays Maximum Internal Raw Capacity: 798 TB (calculate 30.72 TB NVMe SSD) Maximum Raw Capacity with Expansion Units: 8,286 TB (calculate 24 TB SAS HDD and 30.72 TB NVMe SSD)
Networking	Per Controller: 1 x 1GbE RJ45 Management port 4 x 10GbE SFP+ LAN port 4 x 10GbE RJ45 LAN port (Optional) 2 x 25GbE SFP28 LAN port (Optional) 4 x 25GbE SFP28 LAN port (Optional) 2 x 16Gb SFP+ Fibre Channel port (Optional) 4 x 16Gb SFP+ Fibre Channel port (Optional) 2 x 32Gb SFP28 Fibre Channel port (Optional)	Per Controller: 1 x 1GbE RJ45 Management port 4 x 10GbE SFP+ LAN port 4 x 10GbE RJ45 LAN port (Optional) 2 x 25GbE SFP28 LAN port (Optional) 4 x 25GbE SFP28 LAN port (Optional) 2 x 16Gb SFP+ Fibre Channel port (Optional) 4 x 16Gb SFP+ Fibre Channel port (Optional) 2 x 32Gb SFP28 Fibre Channel port (Optional)	Per Controller: 1 x 2.5GbE RJ45 Management port 4 x 25GbE SFP28 LAN port 2 x 100GbE QSFP LAN port (Optional) 4 x 16Gb SFP+ Fibre Channel (Optional) 4 x 32Gb SFP28 Fibre Channel (Optional)
Front I/O ports	1 x Enclosure Power Button/LED 1 x USB Port 1 x UID(UniqueIdentifier) Button/LED	1 x Enclosure Power Button/LED 1 x USB Port 1 x UID(UniqueIdentifier) Button/LED	1 x Power Botton 1 x USB Port 1 x UID (UniqueIdentifier) Button / LED
Rear I/O ports	Per Controller: 2 x 12Gb/s SAS Wide Port 4 x 10GbE iSCSI (SFP+) Port 1 x Management Port 1 x Service Port 1 x Console Port 1 x USB Port 1 x Resetto Factory Default Button 1 x Buzzer Mute Button	Per Controller: 2 x 12Gb/s SAS Wide Port 4 x 10GbE iSCSI (SFP+) Port 1 x Management Port 1 x Service Port 1 x Console Port 1 x USB Port 1 x Resetto Factory Default Button 1 x Buzzer Mute Button	2 x Management Port 4 x 12Gb/s SAS Wide Port 2 x USB Port 4 x 25GbE LAN Port 2 x Console Port 2 x Servoce Port 2 x Buzzer Mute Button 2 x Reset to Factory Default Button
Security Options			
Management Solution	ASUS Storage Manager	ASUS Unified Storage Manager	ASUS Unified Storage Manager
Dimension	515mm x 438mm x 88mm (2U)	515mm x 438mm x 88mm (2U)	88mm x 438mm x 573mm (2U)
Power Supply (following different configuration by region)	1+1 Redundant 850W 80 PLUS Platinum Power Supply	1+1 Redundant 850W 80 PLUS Platinum Power Supply	1+1 Redundant 850W 80 PLUS Platinum Power Supply

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model name	OJ341A-RS60	VS320D-RS12J	VS320D-RS80J
	NEW	NEW	NEW
Processor	1 x Socket SP5 (LGA 6096) AMD EPYC™ Genoa / Turin Processors (Up to 320W)	N/A	N/A
Chipset		N/A	N/A
Memory	12 x DIMM slots (12-channel, 1-DIMM per channel) DDR5 6400 RDIMM / 3DS RDIMM Maximum up to 3TB	N/A	N/A
VGA	N/A	N/A	N/A
Graphic	N/A	N/A	N/A
Expansion Slots	3 x PCIe Gen 5 x 16 (FH, HL) 1 x PICe Gen 5 x 8 (HH, HL)	N/A	N/A
Storage Bays	8 x 2.5" NVMe Drive Bays 60 x 3.5" SATA/SAS Drive Bays Maximum Internal Raw Capacity: 1.4 PB (calculate 24 TB HDD)	12 x 3.5"/2.5" Hot-swap drive bays Drive Interface: SAS 12Gb/s Maximum Drive Bays with Expansion Unit: 48 Bays Maximum Internal Raw Capacity: 288 TB (calculate 24 TB HDD) Maximum Raw Capacity with Expansion Units: 1,152 TB (calculate 24 TB HDD)	80 x 3.5"/2.5" Hot-swap drive bays Drive Interface: SAS 24 Gb/s Maximum Drive Bays with Expansion Unit: 320 Bays Maximum Internal Raw Capacity: 1.92 PB (calculate 24 TB HDD) Maximum Raw Capacity with Expansion Units: 7.68 PB (calculate 24 TB HDD)
Networking	1 x 1GbE RJ45 (onboard) Management port 2 x 25GbE SFP28 LAN port / 4 (Optional) 2 x 100GbE QSFP56 LAN port (Optional) 2 x 200GbE QSFP112 LAN port (Optional)	N/A	N/A
Front I/O ports	1 x System Reset Button 1 x System ID Button 1 x Power Button 1 x USB 3.2 Gen 1	1 x Enclosure PowerButton/LED 1 x USB Port 1 x UID(UniqueIdentifier)Button/LED	1x Enclosure Power Switch Button
Rear I/O ports	2 x USB 3.2 Gen 1 1 x VGA port 2 x 25GbE SFP28 LAN port 1 x 1GbE Management Port	Per Controller: 1 x Reset to Factory Default Button 1 x Buzzer Mute Button 1 x Console Port 1 x Service Port 5 x 12Gb/s SAS Wide Port	Per expander: 1 x Management Port 1 x Console Port 4 x 24Gb/s SAS Wide Port
Security Options		N/A	N/A
Management Solution	ASUS ASMB11-iKVM (on-board)	N/A	N/A
Dimension	176mm x 434mm x 878mm (4U)	515mm x 438mm x 88mm (2U)	810.5mm x 434mm x 175mm (4U)
Power Supply (following different configuration by region)	1+1 Redundant 2000W 80 PLUS Platinum Power Supply	1+1 Redundant 850W 80 PLUS Platinum Power Supply	1+1 Redundant 2000W 80 PLUS Platinum Power Supply

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