



AMD HIGH PERFORMANCE COMPUTING & GPU SERVER SOLUTIONS

THE KOI COMPUTERS ADVANTAGE FOR HPC

Koi Computers is a premier provider of High Performance Computing (HPC) solutions to the Federal Government. With over 27 years of experience, we understand the unique challenges and requirements of government agencies. Our extensive experience ensures that each HPC solution is not only cutting-edge, but also highly reliable meeting the stringent standards required by Federal Agencies.

CUSTOMER SERVICE WITH KOICARES SUPPORT

You need a responsive partner that communicates, pays attention to hundreds of details. Koi Computers' systems are shipped with our KoICARES Standard 3-Year Limited Warranty. We are dedicated to providing our customers with outstanding and satisfactory support services.



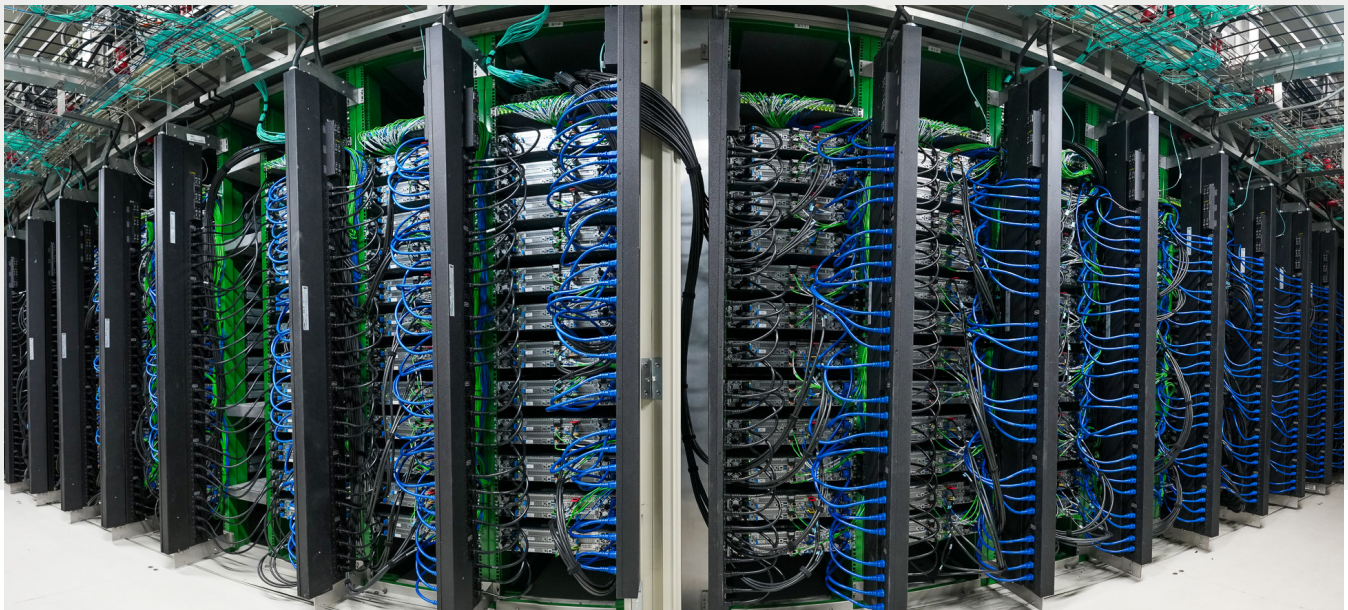
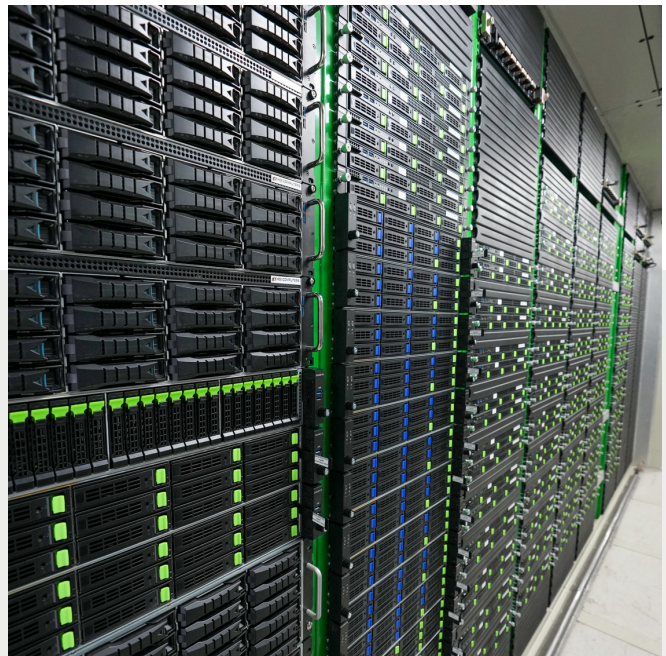
OUR ONGOING GOVERNMENT CONTRACTS



TURNKEY HPC CLUSTERS

DESIGNED FOR HPC, AI, DEEP LEARNING, AND MORE.

- / On-Premise Turnkey HPC Cluster Solution
- / Predictable Upfront and Maintenance Cost
- / Complete control of your On-Premise HPC Cluster
- / Can be Pre-Configured and Optimized for Ansys, AI or Deep Learning
- / Koi Computers is your single vendor contact for the entire cluster solution

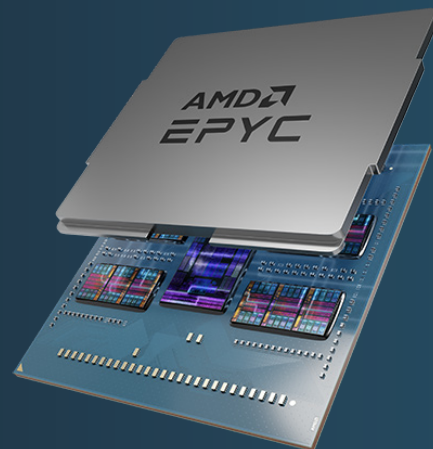


AMD EPYC™ 9004 SERIES PROCESSORS

The new 4th Gen AMD EPYC processors feature substantial compute performance and scalability by combining high core counts with impressive PCIe and memory throughput. In terms of out of the box performance, AMD estimates found that 4th Gen AMD EPYC CPUs are the highest performing server processors in the world. With the advancement to 5nm technology and other performant innovations, the new AMD EPYC 9004 series processors move to a new SP5 socket. The new architecture leads the way to faster data insights with high performance and built-in security features, and this platform targets HPC, AI, cloud, big data, and general enterprise IT.

Key Generational Technologies and Advancements:

- 5nm process node
- Up to 96 cores and 192 threads
- Maximum boost clock up to 4.4GHz
- Up to 384MB L3 cache
- Support for 12 channel DDR5-4800
- ISA updates: BFLOAT16, AVX-512, and VNNI
- Support for PCIe Gen 5, 160 lanes in 2P
- Support for CXL 1.1+ in 64 IO lanes, with bifurcations
- Up to 4 links of Gen3 AMD Infinity Fabric™ (up to 32Gbps)



KOI COMPUTERS HPC SOLUTIONS

R-SERIES



Rackmount Server

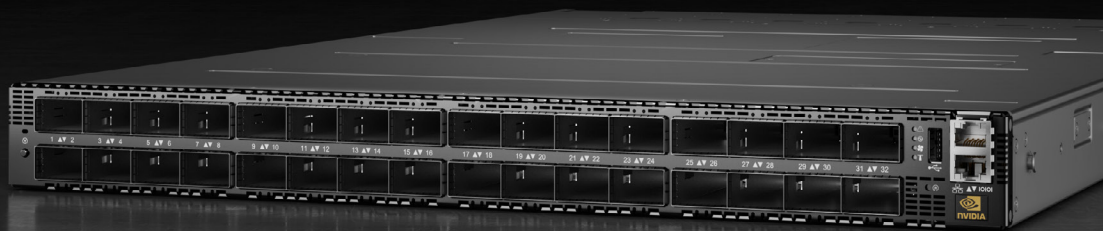
1U and 2U general-purpose systems, offering the best balance of compute, memory, storage, and expandability

G-SERIES



GPU Server

Offering industry leading GPU density due to excellent thermal and mechanical design, and built for HPC, AI, and high-performance parallel processing



HIGH PERFORMANCE NETWORK FABRICS

NVIDIA QUANTUM-2 QM9700 SERIES

SYSTEM SPECIFICATIONS

Performance	400Gb/s per port
Switch radix	64 400Gb/s non-blocking ports with aggregate data throughput up to 51.2Tb/s
Power supply	1+1 redundant and hot-swappable power
Cooling	Front-to-rear or rear-to-front Cooling option: 6+1 hot-swappable fan unit

Koi Computers is integrating Nvidia's Quantum-2 QM9700 Series Infiniband Smart Switches for an advanced end-to-end In-Network Computing capabilities to power AI and scientific computing data centers. Select from a comprehensive solution including Quantum-2 switches, ConnectX-7 adapters, LinkX cables and transceivers and a comprehensive suite of acceleration and management software.

CORNELIS™ CN5000 ONMI-PATH™ FAMILY

HOST FABRIC INTERFACE SPECIFICATIONS

Bandwidth	400 Gbps
Fabric Ports	One or two 400G ports
Card Adapter Form Factors	Low profile PCIe
Power Consumption (Typical):	
Single port	15W (w/o optics)
Dual Port	19W (w/o optics)
Cooling Options	Air, indirect liquid cooling with heat pipe from ASIC to a server cold plate

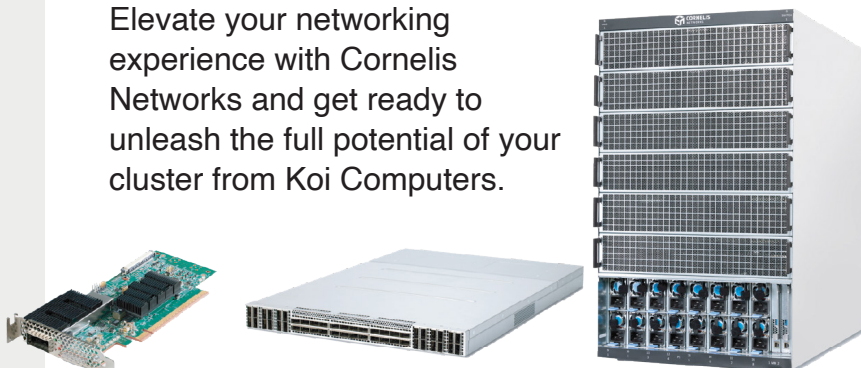
EDGE SWITCH SPECIFICATIONS

Bandwidth	400 Gbps 48p
Fabric Ports	48x 400G ports
Form Factor	1U, 19" rack mount
Power (Typical)	710W (w/o optics), 1100W with 48 x 7.5W AOCs
Cooling Options	Air, Hybrid (air/liquid), Liquid

Koi Computers is excited to integrate the Cornelis CN5000 product family of Host Fabric Interface, Edge Switch, and Director Class Switch options into our HPC Clusters.

This next-generation Omni-Path Product Family redefines networking, embracing a promise of excellence, adaptability, and relentless pursuit of technological advancement.

Elevate your networking experience with Cornelis Networks and get ready to unleash the full potential of your cluster from Koi Computers.



KOI COMPUTERS INTEGRATES WITH MICRON TOGETHER WE ACCELERATE NEXT-GEN WORKLOADS

MICRON DDR5 SERVER DRAM

SYSTEM SPECIFICATIONS

Speeds (MT/s)	3,200, 4,800, 5,600
Densities (GB)	8, 16, 24, 32, 48, 64, 96, 128
Technologies	DDR4, DDR5
Form factor	RDIMM, LRDIMM, ECC UDIMM, ECC SODIMM
Warranty	3-year limited

Benefits for business

- RDIMM capacities up to 96GB
- Operating speeds up to 5,600MT/s
- Optimized for the latest Intel® and AMD® processors
- 100% component and module tested to mission-critical server standards
- 3-year limited warranty
- Available in a wide selection of module configurations

FOR AI AND DEEP LEARNING

Micron DDR5 Server DRAM nearly doubles the performance of DDR4

Increase server and workstation performance by up to 85% with Micron DDR5 Server Memory¹. DDR5 technology relieves the bandwidth-per-core memory crunch to pull peak computing performance and runs more virtual machines, increasing the responsiveness of virtualized applications. DDR5 is expected to overtake DDR4 global memory shipments during the next few years, marking a fast transition between the two technologies.

Boost your server maximum capacity by 50%

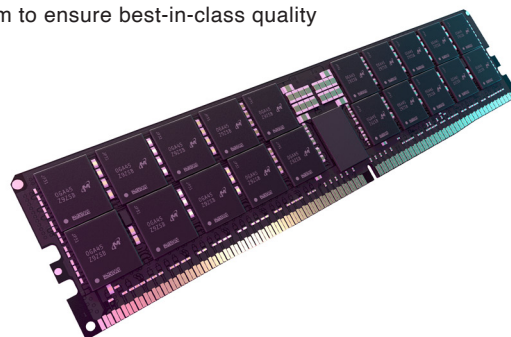
Reach new module densities of 96GB on DDR5 RDIMMs to further boost the maximum capacity of your high-performance servers by 50% more than initially available. This provides additional computational space without having to purchase additional servers. The 96GB RDIMM also provides the same system performance as 128GB 3DS RDIMMs at 50% less cost and saves up to 24% the power draw.

High-performance memory for a new era of data centers

Micron DDR5 Server memory delivers higher bandwidths along with improved reliability, availability, and scaling, when compared to DDR4. It's 100% component and module tested to mission-critical server standards and optimized for next-generation Intel® and AMD® DDR5 server and workstation platforms. n

Get more out of DDR5 servers with Micron Server memory

Micron has produced some of the world's most advanced memory and storage technologies for more than 40 years. All Micron-branded products are developed by our engineering team to ensure best-in-class quality and reliability.



KOI COMPUTERS AND MICRON TOGETHER WE DELIVER HIGH- PERFORMANCE AND RELIABILITY

MICRON 9400 NVMe SSDs: The performance leader for data center workloads

The Micron 9400 NVMe SSD sets a new performance standard for PCIe Gen4 storage, delivering exceptional performance that surpasses other major competitors by up to 2.3 times in mixed workload performance. There can be no concessions for performance-critical workloads. For these applications, fast ingest alone is not enough — responding in microseconds delivers a true competitive advantage.

Ideal for mission-critical applications like:

- Caching
- Content delivery networks
- Massive high-speed OLTP
- High-frequency trading
- Artificial intelligence/machine learning
- Performance-focused databases

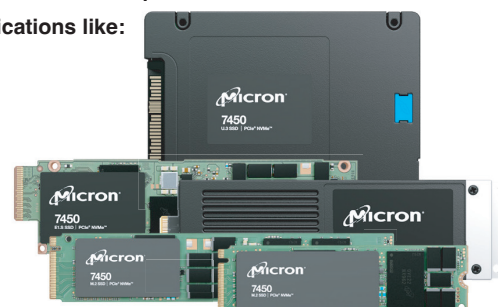


MICRON 7450 NVMe SSDs: Delivers performance to mainstream platform functions

The Micron 7450 NVMe SSD is designed for mainstream data center workloads and offers the industry's broadest variety of form factors, including multiple U.3, M.2 and E1.S to support all major platform functions. It consistently delivers 2ms and lower latency for 99.9999% QoS⁴ and offers next-generation security features like Micron's unique Secure Execution Environment.

Ideal for mission-critical applications like:

- Boot
- Caching
- Databases
- Main data storage
- Object storage
- Software-defined storage
- Virtualization solutions



MICRON 6500 ION NVMe SSDs: Big capacity and bigger value

The Micron 6500 ION NVMe SSD's massive 30.72TB capacity and purpose-built performance makes cloud-storage challenges look small. Building the perfect cloud architecture or content delivery network can sometimes turn into a balancing act between sacrificing cloud storage performance for capacity, or paying for speeds and endurance that will never be used. The Micron 6500 ION NVMe SSD successfully overcomes these challenges.

Ideal for mission-critical applications like:

- Cloud infrastructure
- Hyperconverged infrastructure
- Content delivery networks
- Big data
- Object storage

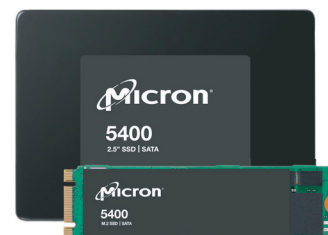


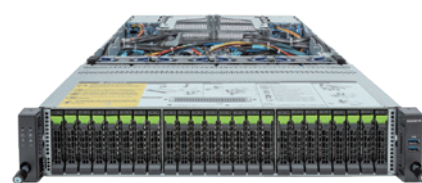
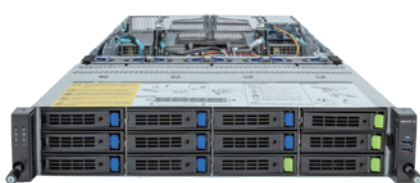
MICRON 5400 NVMe SSDs: Features Micron's proven data center architecture

The Micron 5400 SATA SSD makes it possible to get more from legacy server platforms. It is Micron's 11th generation of data center SATA SSDs, delivering a proven architecture that provides unparalleled peace of mind, reliability and endurance. This proven solution simplifies the transition to flash-based storage with stability and performance from the industry's most advanced data center SATA SSD.

Ideal for mission-critical applications like:

- Hyperconverged infrastructure
- Cloud infrastructure
- Big data
- Object storage





Model	R283-Z90	R283-Z91	R283-Z92
Motherboard	MZ93-FS0	MZ93-FS0	MZ93-FS0
Form Factor	2U (W438 x H87 x D815 mm)	2U (W438 x H87 x D815 mm)	2U (W438 x H87 x D815 mm)
Processor	AMD EPYC 9004 series Dual SP5 sockets	AMD EPYC 9004 series Dual SP5 sockets	AMD EPYC 9004 series Dual SP5 sockets
Chipset	System on Chip	System on Chip	System on Chip
Memory	24 x DDR5 RDIMM slots 12-Channel 4800 MHz	24 x DDR5 RDIMM slots 12-Channel 4800 MHz	24 x DDR5 RDIMM slots 12-Channel 4800 MHz
Networking	2 x 1GbE LAN, 1 x MLAN	2 x 1GbE LAN, 1 x MLAN	2 x 1GbE LAN, 1 x MLAN
Storage Bays	Front side: 12 x 3.5"/2.5" hot-swap bays [AAD1/AAV1] 12 x Gen4 NVMe/SATA [AAD2/AAV2] 4 x Gen4 NVMe/SATA + 8 x SATA [AAD3/AAV3] 12 x SATA Rear side: 2.5" SATA hot-swap bays [AAD1/AAD2/AAV1/AAV2] 4 x SATA [AAD3/AAV3] 2 x SATA SAS devices supported via SAS card	Front side: 12 x 3.5"/2.5" hot-swap bays [AAD1/AAV1] 4 x Gen4 NVMe/SATA + 8 x SATA [AAD2/AAV2] 12 x SATA Rear side: 2 x 2.5" SATA hot-swap bays Broadcom SAS35x24R expander SAS card is required to enable SATA/SAS	Front side: 24 x 2.5" hot-swap bays [AAD1/AAV1] 16 x SATA + 8 x dummy tray [AAE1/AAJ1] 12 x Gen4 NVMe/SATA + 12 x NVMe [AAE2/AAJ2] 8 x Gen4 NVMe + 16 x SATA [AAE3/AAJ3] 4 x Gen4 NVMe/SATA + 20 x SATA* Rear side: [AAE1/AAJ1/AAE3/AAJ3] 4 x 2.5" SATA hot-swap bays SAS devices supported via SAS card *Broadcom SAS35x36R expander SAS card is required to enable SATA/SAS
Expansion Slots	[AAD1/AAV1] 3 x PCIe 5.0 x16 FHHL 1 x OCP 3.0 Gen5 x16 3 x M.2 (PCIe 3.0 x4/2) [AAD2/AAV2] 4 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 3 x M.2 (PCIe 3.0 x4/2) [AAD3/AAV3] 4 x PCIe 5.0 x16 FHHL 2 x PCIe 5.0 x8 FHHL 2 x OCP 3.0 Gen5 x16 3 x M.2 (PCIe 3.0 x4/2)	[AAD1/AAV1] 4 x PCIe 5.0 x16 FHHL 2 x PCIe 5.0 x8 FHHL 2 x OCP 3.0 Gen5 x16 3 x M.2 (PCIe 3.0 x4/2) [AAD2/AAV2] 6 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 3 x M.2 (PCIe 3.0 x4/2)	[AAD1/AAV1] 4 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 3 x M.2 (PCIe 3.0 x4/2) [AAE1/AAJ1] 2 x PCIe 5.0 x16 FHHL [AAE2/AAJ2] 4 x PCIe 5.0 x16 FHHL 1 x OCP 3.0 Gen5 x16 3 x M.2 (PCIe 3.0 x4/2) [AAE3/AAJ3] 4 x PCIe 5.0 x16 FHHL 2 x PCIe 5.0 x8 FHHL 2 x OCP 3.0 Gen5 x16 3 x M.2 (PCIe 3.0 x4/2)
I/O Ports	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN
Security	Optional TPM 2.0 module	Optional TPM 2.0 module	Optional TPM 2.0 module
Power Supply	Dual 1600W redundant PSUs [AAD*] 80 PLUS Platinum [AAV*] 80 PLUS Titanium	Dual 1600W redundant PSUs [AAD*] 80 PLUS Platinum [AAV*] 80 PLUS Titanium	[AAD1/AAV1] Dual 1600W redundant PSUs [AAE*/AAJ*] Dual 2000W redundant PSUs [AAD1/AAE*] 80 PLUS Platinum [AAV1/AAJ*] 80 PLUS Titanium
System Management	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console
Other Features	Dual ROM architecture supported	Dual ROM architecture supported Onboard 12Gb/s SAS expander	Dual ROM architecture supported [AAE3/AAJ3] Onboard 12Gb/s SAS expander



Model	R283-Z93	R283-Z94	R283-Z95
Motherboard	MZ93-FS0	MZ93-FS1	MZ93-FS1
Form Factor	2U (W438 x H87 x D815 mm)	2U (W438 x H87 x D815 mm)	2U (W438 x H87 x D815 mm)
Processor	AMD EPYC 9004 series Dual SP5 sockets	AMD EPYC 9004 series Dual SP5 sockets	AMD EPYC 9004 series Dual SP5 sockets
Chipset	System on Chip	System on Chip	System on Chip
Memory	24 x DDR5 RDIMM slots 12-Channel 4800 MHz	24 x DDR5 RDIMM slots 12-Channel 4800 MHz	24 x DDR5 RDIMM slots 12-Channel 4800 MHz
Networking	2 x 1GbE LAN 1 x MLAN	2 x 1GbE LAN 1 x MLAN	2 x 1GbE LAN 1 x MLAN
Storage Bays	Front side: 12 x 3.5"/2.5" hot-swap bays [AAF1/AAL1] 4 x Gen4 NVMe/SATA + 8 x SATA Rear side: 4 x 2.5" hot-swap bays [AAF1/AAL1] 4 x SATA SAS devices supported via SAS card	Front side: 12 x 3.5"/2.5" hot-swap bays [AAD1/AAV1] 12 x Gen5 NVMe/SATA [AAD2/AAV2] 4 x Gen5 NVMe/SATA + 8 x SATA Rear side: 2.5" hot-swap bays [AAD1/AAV1] 4 x SATA [AAD2/AAV2] 2 x SATA SAS4 devices supported via SAS card	Front side: 12 x 3.5"/2.5" hot-swap bays [AAD1/AAV1] 4 x Gen5 NVMe/SATA + 8 x SATA Rear side: 2 x 2.5" hot-swap bays [AAD1/AAV1] 2 x SATA Broadcom SAS4 expander SAS card is required to enable SATA/SAS4
Expansion Slots	[AAF1/AAL1] 2 x PCIe 5.0 x16 FHFL for GPUs 2 x PCIe 5.0 x16 FHFL 2 x OCP 3.0 Gen5 x16	[AAD1/AAV1] 3 x PCIe 5.0 x16 FHFL 1 x OCP 3.0 Gen5 x16 2 x M.2 (PCIe 3.0 x4) 1 x M.2 (PCIe 3.0 x2) [AAD2/AAV2] 4 x PCIe 5.0 x16 FHFL 2 x OCP 3.0 Gen5 x16 2 x M.2 (PCIe 3.0 x4) 1 x M.2 (PCIe 3.0 x2)	[AAD1/AAV1] 5 x PCIe 5.0 x16 FHFL 2 x OCP 3.0 Gen5 x16 2 x M.2 (PCIe 3.0 x4) 1 x M.2 (PCIe 3.0 x2)
I/O Ports	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN
Security	Optional TPM 2.0 module	Optional TPM 2.0 module	Optional TPM 2.0 module
Power Supply	[AAF1] Dual 2400W redundant PSUs 80 PLUS Platinum [AAL1] Dual 2700W redundant PSUs 80 PLUS Titanium	Dual 1600W redundant PSUs [AAD*] 80 PLUS Platinum [AAV*] 80 PLUS Titanium	Dual 1600W redundant PSUs [AAD1] 80 PLUS Platinum [AAV1] 80 PLUS Titanium
System Management	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console
Other Features	Dual ROM architecture supported Up to 2 x dual-slot Gen5 GPU cards	Dual ROM architecture supported	Dual ROM architecture supported Onboard 24Gb/s SAS expander



Model	R283-Z96	R283-Z97	R183-Z90
Motherboard	MZ93-FS1	MZ93-FS1	MZ93-FS0
Form Factor	2U (W438 x H87 x D815 mm)	2U (W438 x H87 x D815 mm)	1U (W438 x H43.5x D815 mm)
Processor	AMD EPYC 9004 series Dual SP5 sockets	AMD EPYC 9004 series Dual SP5 sockets	AMD EPYC 9004 series Dual SP5 sockets
Chipset	System on Chip	System on Chip	System on Chip
Memory	24 x DDR5 RDIMM slots 12-Channel 4800 MHz	24 x DDR5 RDIMM slots 12-Channel 4800 MHz	24 x DDR5 RDIMM slots 12-Channel 4800 MHz
Networking	2 x 1GbE LAN 1 x MLAN	2 x 1GbE LAN 1 x MLAN	2 x 1GbE LAN 1 x MLAN
Storage Bays	Front side: 24 x 2.5" hot-swap bays [AAE1/AAJ1] 24 x Gen5 NVMe [AAE2/AAJ2] 4 x Gen5 NVMe/SATA + 20 x SATA* [AAE3/AAJ3] 8 x Gen5 NVMe + 16 x SATA Rear side: 4 x 2.5" hot-swap bays [AAE1/AAE2/AAJ1/AAJ2] 4 x SATA [AAE3/AAJ3] N/A SAS4 devices supported via SAS card *Broadcom SAS4 expander SAS card is required to enable SATA/SAS4	Front side: 12 x 3.5"/2.5" hot-swap bays [AAF1/AAL1] 8 x Gen5 NVMe/SATA + 4 x SATA Rear side: 4 x 2.5" hot-swap bays [AAF1/AAL1] 4 x SATA SAS4 devices supported via SAS card	Front side: 4 x 3.5"/2.5" hot-swap bays [AAD1/AAV1] 4 x Gen4 NVMe/SATA [AAD2/AAV2] 4 x SATA SAS devices supported via SAS card
Expansion Slots	[AAE1/AAJ1] 1 x PCIe 5.0 x16 FHHL 1 x OCP 3.0 Gen5 x16 2 x M.2 (PCIe 3.0 x4) [AAE2/AAJ2] 4 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 3 x M.2 (PCIe 3.0 x4/2) [AAE3/AAJ3] 3 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 3 x M.2 (PCIe 3.0 x4/2)	[AAF1/AAL1] 2 x PCIe 5.0 x16 FHFL for GPUs 2 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16	[AAD1/AAV1/AAD2/AAV2] 2 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 2 x M.2 (PCIe 3.0 x4) 1 x M.2 (PCIe 3.0 x2)
I/O Ports	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN
Security	Optional TPM 2.0 module	Optional TPM 2.0 module	Optional TPM 2.0 module
Power Supply	Dual 2000W redundant PSUs [AAE1] 80 PLUS Platinum [AAJ1] 80 PLUS Titanium	[AAF1] Dual 2400W redundant PSUs 80 PLUS Platinum [AAL1] Dual 2700W redundant PSUs 80 PLUS Titanium	Dual 1600W redundant PSUs [AAD1] 80 PLUS Platinum [AAV1] 80 PLUS Titanium
System Management	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console
Other Features	Dual ROM architecture supported [AAE2/AAJ2] Onboard 24Gb/s SAS expander	Dual ROM architecture supported Up to 2 x dual-slot Gen5 GPU cards	Dual ROM architecture supported



Model	R183-Z91	R183-Z92	R183-Z93
Motherboard	MZ93-FS0	MZ93-FS0	MZ93-FS1
Form Factor	1U (W438 x H43.5x D815 mm)	1U (W438 x H43.5x D815 mm)	1U (W438 x H43.5x D815 mm)
Processor	AMD EPYC 9004 series Dual SP5 sockets	AMD EPYC 9004 series Dual SP5 sockets	AMD EPYC 9004 series Dual SP5 sockets
Chipset	System on Chip	System on Chip	System on Chip
Memory	24 x DDR5 RDIMM slots 12-Channel 4800 MHz	24 x DDR5 RDIMM slots 12-Channel 4800 MHz	24 x DDR5 RDIMM slots 12-Channel 4800 MHz
Networking	2 x 1GbE LAN 1 x MLAN	2 x 1GbE LAN 1 x MLAN	2 x 1GbE LAN 1 x MLAN
Storage Bays	Front side: 4 x 3.5"/2.5" hot-swap bays + 4 x 2.5" 9.5mm hot-swap bays [AAD1/AAV1] 8 x Gen4 NVMe/SATA [AAD2/AAV2] 8 x SATA SAS devices supported via SAS card	Front side: 12 x 2.5" hot-swap bays [AAD1/AAV1] 12 x Gen4 NVMe/SATA [AAD2/AAV2] 4 x Gen4 NVMe/SATA + 8 x SATA [AAD3/AAV3] 12 x SATA SAS devices supported via SAS card	Front side: 4 x 3.5"/2.5" hot-swap bays [AAD1/AAV1] 4 x Gen5 NVMe/SATA
Expansion Slots	[AAD1/AAV1/AAD2/AAV2] 2 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 2 x M.2 (PCIe 3.0 x4) 1 x M.2 (PCIe 3.0 x2)	[AAD1/AAV1/AAD2/AAV2/AAD3/AAV3] 2 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 2 x M.2 (PCIe 3.0 x4) 1 x M.2 (PCIe 3.0 x2)	[AAD1/AAV1] 2 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 2 x M.2 (PCIe 3.0 x4) 1 x M.2 (PCIe 3.0 x2)
I/O Ports	Front: 1 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1 1 x Mini-DP 2 x RJ45 1 x MLAN	Front: 1 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1 1 x Mini-DP 2 x RJ45 1 x MLAN	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1 1 x Mini-DP 2 x RJ45 1 x MLAN
Security	Optional TPM 2.0 module	Optional TPM 2.0 module	Optional TPM 2.0 module
Power Supply	Dual 1600W redundant PSUs [AAD*] 80 PLUS Platinum [AAV*] 80 PLUS Titanium	Dual 1600W redundant PSUs [AAD*] 80 PLUS Platinum [AAV*] 80 PLUS Titanium	Dual 1600W redundant PSUs [AAD1] 80 PLUS Platinum [AAV1] 80 PLUS Titanium
System Management	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console
Other Features	Dual ROM architecture supported	Dual ROM architecture supported	Dual ROM architecture supported



Model	R183-Z94	R183-Z95	R183-Z96
Motherboard	MZ93-FS1	MZ93-FS1	MZ93-FS1
Form Factor	1U (W438 x H43.5x D815 mm)	1U (W438 x H43.5x D815 mm)	1U (W438 x H43.5x D815 mm)
Processor	AMD EPYC 9004 series Dual SP5 sockets	AMD EPYC 9004 series Dual SP5 sockets	AMD EPYC 9004 series Dual SP5 sockets
Chipset	System on Chip	System on Chip	System on Chip
Memory	24 x DDR5 RDIMM slots 12-Channel 4800 MHz	24 x DDR5 RDIMM slots 12-Channel 4800 MHz	24 x DDR5 RDIMM slots 12-Channel 4800 MHz
Networking	2 x 1GbE LAN 1 x MLAN	2 x 1GbE LAN 1 x MLAN	2 x 1GbE LAN 1 x MLAN
Storage Bays	Front side: 12 x 2.5" hot-swap bays [AAD1/AAV1] 12 x Gen5 NVMe/SATA [AAD2/AAV2] 4 x Gen5 NVMe/SATA + 8 x SATA SAS4 devices supported via SAS card	Front side: 8 x 2.5" hot-swap bays 6 x E1.S EDSFF hot-swap bays [AAD1/AAV1] 8 x Gen5 NVMe/SATA + 6 x E1.S SAS4 devices supported via SAS card	Front side: 4 x 3.5"/2.5" hot-swap bays + 4 x 2.5" 9.5mm hot-swap bays [AAD1/AAV1] 8 x Gen5 NVMe/SATA SAS4 devices supported via SAS card
Expansion Slots	[AAD1/AAV1/AAD2/AAV2] 2 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 2 x M.2 (PCIe 3.0 x4) 1 x M.2 (PCIe 3.0 x2)	[AAD1/AAV1] 2 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 2 x M.2 (PCIe 3.0 x4) 1 x M.2 (PCIe 3.0 x2)	[AAD1/AAV1] 2 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 2 x M.2 (PCIe 3.0 x4) 1 x M.2 (PCIe 3.0 x2)
I/O Ports	Front: 1 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1 1 x Mini-DP 2 x RJ45 1 x MLAN	Front: 1 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1 1 x Mini-DP 2 x RJ45 1 x MLAN	Front: 1 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1 1 x Mini-DP 2 x RJ45 1 x MLAN
Security	Optional TPM 2.0 module	Optional TPM 2.0 module	Optional TPM 2.0 module
Power Supply	Dual 1600W redundant PSUs [AAD*] 80 PLUS Platinum [AAV*] 80 PLUS Titanium	Dual 1600W redundant PSUs [AAD1] 80 PLUS Platinum [AAV1] 80 PLUS Titanium	Dual 1600W redundant PSUs [AAD1] 80 PLUS Platinum [AAV1] 80 PLUS Titanium
System Management	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console
Other Features	Dual ROM architecture supported	Dual ROM architecture supported	Dual ROM architecture supported



Model	R263-Z30	R263-Z32	R263-Z33
Motherboard	MZ33-DC0	MZ33-DC0	MZ33-DC0
Form Factor	2U (W438 x H87.5x D700 mm)	2U (W438 x H87.5x D700 mm)	2U (W438 x H87.5x D700 mm)
Processor	AMD EPYC 9004 series Single SP5 socket	AMD EPYC 9004 series Single SP5 socket	AMD EPYC 9004 series Single SP5 socket
Chipset	System on Chip	System on Chip	System on Chip
Memory	12 x DDR5 RDIMM slots 12-Channel 4800 MHz	12 x DDR5 RDIMM slots 12-Channel 4800 MHz	12 x DDR5 RDIMM slots 12-Channel 4800 MHz
Networking	1 x 1GbE LAN 1 x MLAN	1 x 1GbE LAN 1 x MLAN	1 x 1GbE LAN 1 x MLAN
Storage Bays	Front side: 12 x 3.5"/2.5" hot-swap bays [AAC1/AAH1] 12 x Gen4 NVMe/SATA [AAC2/AAH2] 4 x Gen4 NVMe/SATA + 8 x SATA SAS devices supported via SAS card	Front side: 24 x 2.5" hot-swap bays [AAD1/AAV1] 12 x Gen4 NVMe + 12 x SATA [AAC1/AAH1] 8 x Gen4 NVMe + 16 x SATA SAS devices supported via SAS card	Front side: 12 x 3.5"/2.5" hot-swap bays [AAF1/AAL1] 8 x Gen4 NVMe/SATA + 4 x SATA SAS devices supported via SAS card
Expansion Slots	[AAC1/AAH1] 2 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 1 x M.2 (PCIe 3.0 x4) [AAC2/AAH2] 2 x PCIe 5.0 x16 FHHL 1 x PCIe 4.0 x16 FHHL 2 x PCIe 4.0 x8 FHHL 2 x OCP 3.0 Gen5 x16 1 x M.2 (PCIe 3.0 x4)	[AAD1/AAV1] 2 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 1 x M.2 (PCIe 3.0 x4) [AAC1/AAH1] 2 x PCIe 5.0 x16 FHHL 2 x PCIe 4.0 x8 FHHL 2 x OCP 3.0 Gen5 x16 1 x M.2 (PCIe 3.0 x4)	[AAF1/AAL1] 2 x PCIe 5.0 x16 FHHL for GPUs 1 x PCIe 4.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 1 x M.2 (PCIe 3.0 x4)
I/O Ports	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1 1 x Mini-DP 1 x RJ45 1 x MLAN	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1 1 x Mini-DP 1 x RJ45 1 x MLAN	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1 1 x Mini-DP 1 x RJ45 1 x MLAN
Security	Optional TPM 2.0 module	Optional TPM 2.0 module	Optional TPM 2.0 module
Power Supply	Dual 1300W redundant PSUs [AAC*] 80 PLUS Platinum [AAH*] 80 PLUS Titanium	[AAD1/AAV1] Dual 1600W redundant PSUs [AAC1/AAH1] Dual 1300W redundant PSUs [AAD1/AAC1] 80 PLUS Platinum [AAV1/AAH1] 80 PLUS Titanium	[AAF1] Dual 2400W redundant PSUs 80 PLUS Platinum [AAL1] Dual 2700W redundant PSUs 80 PLUS Titanium
System Management	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console
Other Features	Dual ROM architecture supported	Dual ROM architecture supported	Dual ROM architecture supported Up to 2 x dual-slot Gen5 GPU cards



Model	R163-Z30	R163-Z32
Motherboard	MZ33-DC0	MZ33-DC0
Form Factor	1U (W438 x H43.5x D710 mm)	1U (W438 x H43.5x D710 mm)
Processor	AMD EPYC 9004 series Single SP5 socket	AMD EPYC 9004 series Single SP5 socket
Chipset	System on Chip	System on Chip
Memory	12 x DDR5 RDIMM slots 12-Channel 4800 MHz	12 x DDR5 RDIMM slots 12-Channel 4800 MHz
Networking	1 x 1GbE LAN 1 x MLAN	1 x 1GbE LAN 1 x MLAN
Storage Bays	Front side: 4 x 3.5"/2.5" hot-swap bays [AAB1/AAG1] 4 x Gen4 NVMe/SATA [AAB2/AAG2] 4 x SATA SAS devices supported via SAS card	Front side: 12 x 2.5" hot-swap bays [AAC1/AAH1] 12 x Gen4 NVMe/SATA [AAC2/AAH2] 8 x SATA + 4 x Gen4 NVMe [AAB1/AAG1] 12 x SATA SAS devices supported via SAS card
Expansion Slots	[AAB1/AAB2/AAG1/AAG2] 2 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 1 x M.2 (PCIe 3.0 x4)	[AAC1/AAC2/AAB1/AAH1/AAH2/AAG1] 2 x PCIe 5.0 x16 FHHL 2 x OCP 3.0 Gen5 x16 1 x M.2 (PCIe 3.0 x4)
I/O Ports	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1 1 x Mini-DP 1 x RJ45 1 x MLAN	Front: 1 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1 1 x Mini-DP 1 x RJ45 1 x MLAN
Security	Optional TPM 2.0 module	Optional TPM 2.0 module
Power Supply	[AAB*] Dual 800W redundant PSUs 80 PLUS Platinum [AAG*] Dual 850W redundant PSUs 80 PLUS Titanium	[AAC*/AAH*] Dual 1300W redundant PSUs [AAB1] Dual 800W redundant PSUs [AAG1] Dual 850W redundant PSUs [AAC*/AAB1] 80 PLUS Platinum [AAH*/AAG1] 80 PLUS Titanium
System Management	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console
Other Features	Dual ROM architecture supported	Dual ROM architecture supported



Model	R133-C10	R133-C13	R133-C11
Motherboard	MC13-BL1	MC13-BL1	MC13-BL0
Form Factor	1U (W438 x H43.5x D710 mm)	1U (W438 x H43.5x D710 mm)	1U (W438 x H43.5x D710 mm)
Processor	AMD Ryzen 7000 Series Single AM5 socket	AMD Ryzen 7000 Series Single AM5 socket	AMD Ryzen 7000 Series Single AM5 socket
Chipset	AMD B650E chipset	AMD B650E chipset	AMD B650E chipset
Memory	4 x DDR5 UDIMM slots 2-Channel 5200MHz (2DPC)	4 x DDR5 UDIMM slots 2-Channel 5200MHz (2DPC)	4 x DDR5 UDIMM slots 2-Channel 5200MHz (2DPC)
Networking	2 x 1GbE LAN 1 x MLAN	2 x 1GbE LAN 1 x MLAN	2 x 1GbE LAN 2 x 10GbE LAN 1 x MLAN
Storage Bays	[AAA1/AAG1] 4 x 3.5"/2.5"SATA hot-swap bays	[AAB1/AAG1] 4 x 3.5"/2.5" SATA hot-swap bays	[AAB1/AAG1] 4 x 3.5"/2.5" SATA hot-swap bays + 4 x 2.5" 9.5mm SATA hot-swap bays
Expansion Slots	1 x PCIe 5.0 x16 FHFL 1 x PCIe 4.0 x4 FHHL 1 x M.2 (PCIe 4.0 x4)	1 x PCIe 5.0 x16 FHFL for GPU 1 x PCIe 4.0 x4 FHHL 1 x M.2 (PCIe 4.0 x4)	1 x PCIe 5.0 x16 FHFL for GPU 1 x PCIe 4.0 x4 FHHL 1 x M.2 (PCIe 4.0 x4)
I/O Ports	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1 1 x Mini-DP 2 x RJ45 1 x MLAN	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1 1 x Mini-DP 2 x RJ45 1 x MLAN	Front: 1 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1 1 x Mini-DP 4 x RJ45 1 x MLAN
Security	Optional TPM 2.0 module	Optional TPM 2.0 module	Optional TPM 2.0 module
Power Supply	[AAA1] Dual 550W redundant PSUs 80 PLUS Platinum [AAG1] Dual 800W redundant PSUs 80 PLUS Titanium	Dual 800W redundant PSUs [AAB1] 80 PLUS Platinum [AAG1] 80 PLUS Titanium	Dual 800W redundant PSUs [AAB1] 80 PLUS Platinum [AAG1] 80 PLUS Titanium
System Management	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console
Other Features	N/A	Support 1 x dual-slot Gen5 GPU card	Support 1 x dual-slot Gen5 GPU card



Model	G593-ZD2	G493-ZB0	G493-ZB1
Motherboard	MZB3-G42	MZB3-G42	MZB3-G41
Form Factor	5U (W447 x H222.25 x D945mm)	4U (W448 x H176 x D880 mm)	4U (W448 x H176 x D880 mm)
Processor	AMD EPYC 9004 series Dual SP5 sockets	AMD EPYC 9004 series Dual SP5 sockets	AMD EPYC 9004 series Dual SP5 sockets
Chipset	System on Chip	System on Chip	System on Chip
Memory	24 x DDR5 RDIMM slots 12-Channel 4800MHz	24 x DDR5 RDIMM slots 12-Channel 4800 MHz	48 x DDR5 RDIMM slots 12-Channel 3600 MHz (2DPC)
Networking	2 x 10G BASE-T LAN 1 x MLAN	2 x 10G BASE-T LAN 1 x MLAN	2 x 1G BASE-T LAN 1 x MLAN
Storage Bays	Front side: 8 x 2.5" hot-swap bays [AAX1] 8 x Gen5 NVMe SAS devices supported via SAS card	[AAP1] N/A	Front side: 12 x 2.5" hot-swap bays [AAP1] 8 x Gen5 NVMe/SATA + 4 x SATA SAS devices supported via SAS card
Expansion Slots	NVIDIA HGX H100 with 8 x SXM5 GPUs 4 x PCIe 5.0 x16 FHHL 8 x PCIe 5.0 x16 LP 1 x M.2 (PCIe 3.0 x4) 1 x M.2 (PCIe 3.0 x1)	8 x PCIe 5.0 x16 FHFL for GPUs* 2 x PCIe 5.0 x16 FHFL 1 x M.2 (PCIe 3.0 x4) 1 x M.2 (PCIe 3.0 x1) *without PCIe switches	10 x PCIe 5.0 x16 FHFL for GPUs 2 x PCIe 5.0 x16 LP 2 x M.2 (PCIe 3.0 x4)
I/O Ports	Front: 2 x USB 3.2 Gen1 1 x VGA 2 x RJ45 1 x MLAN (default port) Rear: 1 x MLAN	Front: 2 x USB 3.2 Gen1 1 x VGA 2 x RJ45 1 x MLAN Rear: N/A	Front: 2 x USB 3.2 Gen1 1 x VGA 2 x RJ45 1 x MLAN Rear: N/A
Security	Optional TPM 2.0 module	Optional TPM 2.0 module	Optional TPM 2.0 module
Power Supply	4+2 3000W redundant PSUs 80 PLUS Titanium	3+1 3000W redundant PSUs 80 PLUS Titanium	3+1 3000W redundant PSUs 80 PLUS Titanium
System Management	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console	ASPEED AST2600 BMC GIGABYTE Management Console
Other Features	Dual ROM architecture supported Supports NVIDIA HGX H100 8-GPU with NVIDIA NVLink & NVSwitch technology	Dual ROM architecture supported Up to 8 x dual-slot Gen5 GPUs	Dual ROM architecture supported Up to 10 x dual-slot Gen5 GPUs

