

# NEW HEIGHT OF AI COMPUTING

## Performance-optimized GPU Server Solutions

GPU Barebones



## NVIDIA-Qualified

A server that has been qualified for a particular NVIDIA GPU has undergone thermal, mechanical, power, and signal integrity qualification to ensure that the GPU is fully functional in that server design. Servers in qualified configurations are supported for production use.

| Card Model                                       | Server Model           | PCIe Speed | Processor Type                |
|--|------------------------|------------|-------------------------------|
| NVIDIA RTX PRO™ 6000<br>Blackwell Server Edition | 4U8G-GNR2              | PCIe Gen5  | Intel® Xeon® 6                |
|  | 4UXGM-GNR2 CX8         | PCIe Gen5  | Intel® Xeon® 6                |
|  | 4UXGM-TURIN2 CX8       | PCIe Gen5  | AMD EPYC™ 9005                |
| NVIDIA HGX™<br>B200 8-GPU                        | 4U8X-EGS2/DLC SYN B200 | PCIe Gen5  | AMD EPYC™ 7007                |
|  | 8U8X-EGS2 SYN B200     | PCIe Gen5  | 5th Gen Intel® Xeon® Scalable |
| NVIDIA H200 NVL                                  | 4U10G-EGS2             | PCIe Gen5  | 5th Gen Intel® Xeon® Scalable |
|  | 4U10G-GNR2             | PCIe Gen5  | Intel® Xeon® 6                |
|  | 4U10G-TURIN2           | PCIe Gen5  | AMD EPYC™ 9005                |
|  | 4U8G-EGS2              | PCIe Gen5  | 5th Gen Intel® Xeon® Scalable |
|  | 4U8G-GNR2              | PCIe Gen5  | Intel® Xeon® 6                |
|  | 4U8G-GNR2/RF           | PCIe Gen5  | Intel® Xeon® 6                |
|  | 4U8G-TURIN2            | PCIe Gen5  | AMD EPYC™ 9005                |
|  | 4U8G-TURIN2/RF         | PCIe Gen5  | AMD EPYC™ 9005                |
|  | 4UXGM-GNR2             | PCIe Gen5  | Intel® Xeon® 6                |
|  | 4UXGM-GNR2 CX8         | PCIe Gen5  | Intel® Xeon® 6                |
|  | 4UXGM-TURIN2           | PCIe Gen5  | AMD EPYC™ 9005                |
| NVIDIA HGX™<br>H200 8-GPU                        | 6U8X-EGS2 H200         | PCIe Gen5  | 5th Gen Intel® Xeon® Scalable |
|  | 6U8X-EGS2/ZC SYN H200  | PCIe Gen5  | 5th Gen Intel® Xeon® Scalable |
|  | 6U8X-TURIN2 H200       | PCIe Gen5  | AMD EPYC™ 9005                |
|  | 6U8X-TURIN2 SYN H200   | PCIe Gen5  | AMD EPYC™ 9005                |
| NVIDIA H100 NVL                                  | 4U10G-EGS2             | PCIe Gen5  | 5th Gen Intel® Xeon® Scalable |
|  | 4U10G-GENOA2           | PCIe Gen5  | AMD EPYC™ 9004                |
|  | 4U8G-EGS2              | PCIe Gen5  | 5th Gen Intel® Xeon® Scalable |
|  | 4U8G-GENOA2            | PCIe Gen5  | AMD EPYC™ 9004                |
|  | 4U8G-GNR2              | PCIe Gen5  | Intel® Xeon® 6                |
|  | 4U8G-GNR2              | PCIe Gen5  | Intel® Xeon® 6700E-series     |
|  | 4UXGM-GNR2             | PCIe Gen5  | Intel® Xeon® 6                |
| NVIDIA L40S                                      | 2U4G-GENOA/M3          | PCIe Gen4  | AMD EPYC™ 9004                |
|  | 4U10G-EGS2             | PCIe Gen4  | 5th Gen Intel® Xeon® Scalable |
|  | 4U10G-GENOA2           | PCIe Gen4  | AMD EPYC™ 9004                |
|  | 4U10G-GENOA2           | PCIe Gen5  | AMD EPYC™ 9004                |
|  | 4U8G-EGS2              | PCIe Gen4  | 4th Gen Intel® Xeon® Scalable |
|  | 4U8G-GENOA2            | PCIe Gen4  | AMD EPYC™ 9004                |
|  | 4UXGM-TURIN2           | PCIe Gen5  | AMD EPYC™ 9004                |
| NVIDIA L40                                       | 2U4G-GENOA/M3          | PCIe Gen5  | AMD EPYC™ 9004                |
|  | 4U10G-EGS2             | PCIe Gen4  | 5th Gen Intel® Xeon® Scalable |
|  | 4U10G-GENOA2           | PCIe Gen4  | AMD EPYC™ 9004                |
|  | 4U10G-GENOA2           | PCIe Gen5  | AMD EPYC™ 9004                |
|  | 4U8G-EGS2              | PCIe Gen4  | 4th Gen Intel® Xeon® Scalable |
|  | 4U8G-GENOA2            | PCIe Gen4  | AMD EPYC™ 9004                |

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| Scale-out GPU Servers  |   |    |
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| Scale-out GPU Servers                |               |    |
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# About ASRock Rack

ASRock Rack Inc., established in 2013, specialized in the field of Cloud Computing server hardware. Inheriting ASRock's design concepts, Creativity, Consideration and Cost-effectiveness, the company is dedicated bringing the Server Industry out of the box thinking with the passion to innovate. Leveraged by ASRock's growing momentum and distribution channels, this young and vibrant company targets at the booming market of cloud computing and commits to serve the market with user friendly, eco-friendly, Do-It-Yourself Server hardware, featuring flexible and reliable products.

## GPU Servers

Accelerating imaginations and breakthroughs with cutting-edge technology, the ASRock Rack GPU server lineup unlocks unmatched performance, excelling across a wide range of workloads including AI, HPC, cloud gaming, and video rendering for cloud, on-prem, and edge environments.



## All-Flash NVMe Storage Servers

Built to support a high density of NVMe drives, the ASRock Rack All-Flash storage server delivers unparalleled speed, ultra-low latency, and high throughput—making it ideal for AI, HPC, CDN, and performance-driven environments where fast, reliable data access is critical.

## Multi-Node Servers

Maximize performance and efficiency with ASRock Rack Multi-Node Servers—architected to deliver high-density computing, optimized resource utilization, and seamless scalability for modern data centers, cloud computing and web hosting.

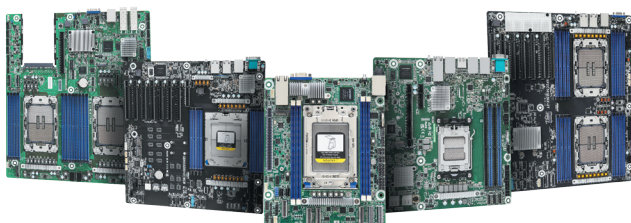


## OCP

ASRock Rack OCP solutions are designed to enhance power efficiency, streamline rack integration, and promote sustainability in alignment with an open standard.

## Rack Servers

ASRock Rack extensive portfolio of general purpose, compute, and storage servers in 1U, 2U, or 4U for diverse workloads from small business, virtualization, VDI, e-commerce to hyper-converged infrastructure, and more.

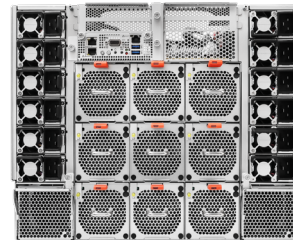
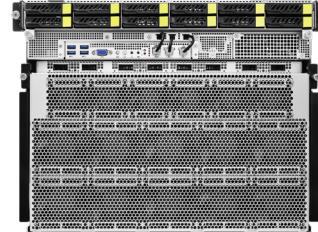


## Server Motherboards

Tailor your servers and workstations with ASRock Rack versatile motherboards, powered by high-performance x86 and ARM-based processors. Choose from both single and dual socket options, and a wide range of form factors, to build the ideal solution for your unique computing needs.



# 8U16X-GNR2 B300



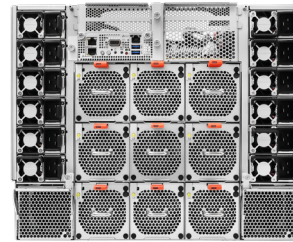
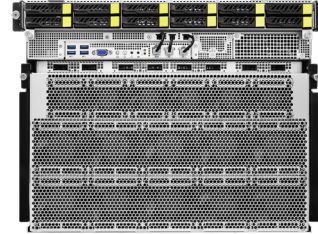
## Application

- Generative AI and Virtual Assistants
- Hyperscale AI Research
- Large Scale AI Training



|                        |                                  | 8U16X-GNR2 B300   |
|------------------------|----------------------------------|---|
| CPU                    | Socket                           | 1+1 Socket E2 (LGA 4710)<br>Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors  |
| GPU                    | Supported GPU                    | NVIDIA® HGX™ B300 NVL8  |
| PCIe Switch            | PCIe Switch                      | PEX89114  |
| DIMM                   | Slot                             | 16+16 DDR5 DIMM Slots (2DPC); supports:<br>RDIMM up to 128GB each<br>RDIMM-3DS up to 256GB each<br>RDIMM, RDIMM-3DS, max. 6400MT/s (1DPC), 5200MT/s (2DPC)<br>MRDIMM up to 64GB each, max 8000MT/s (1DPC only)                          |
| System Physical Status | Form Factor<br>Chassis Dimension | 8U Rackmount<br>930 x 448 x 353.6mm (36.6" x 17.6" x 13.9")   |
| Front Panel            | Buttons<br>LEDs<br>I/O           | Power button w/ LED, Reset button, NMI button, UID button<br>System fault LED, HDD activity LED<br>2 RJ45 (1GbE) by Intel® i350, shares with Rear IO<br>1 dedicated IPMI, shares with Rear IO<br>4 Type-A (USB3.2 Gen1)<br>1 DB15 (VGA) |
| Rear IO                | RJ45<br>Others                   | 2 RJ45 (1GbE) by Intel® i350, shares with Front Panel<br>1 dedicated IPMI, shares with Front Panel<br>1 UID button, 1 DB15 (VGA), 1 Type-A (USB3.2 Gen1)  |
| Expansion Slots        | Rear                             | 4 FHHL PCIe5.0 x16  |
| Drive Bay / Storage    | External<br>Internal             | 12 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe Switch<br>1 M-key (PCIe5.0 x2), supports 22110/2280 form factor [CPU0]<br>2 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU1]  |
| Networking             | OSFP                             | 8 OSFP (800Gb/s) ports via NVIDIA® ConnectX® -8   |
| Power Supply           | Module                           | 6+6, 80-PLUS Titanium, 3000W CRPS   |
| System Cooling         | Fan                              | 26 PWM 80x80 mm fans + 6 PWM 60x56 mm fans  |
| Management             | BMC                              | ASPEED AST2600  |
| Security               |                                  | TPM (13-pin, SPI) by optional accessory   |

# 8U16X-TURIN2 B300



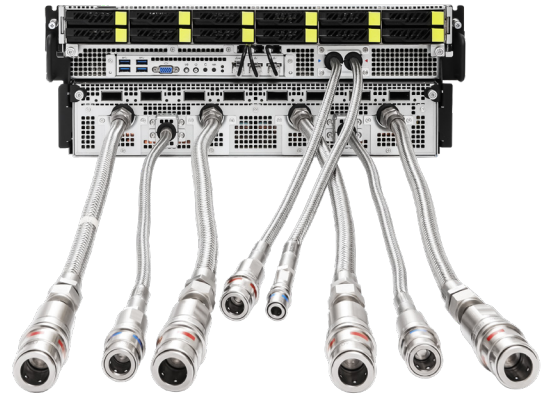
## Application

- HPC
- Inference and Scientific Research
- Hyperscale AI Research



| 8U16X-TURIN2 B300      |                   |  |
|------------------------|-------------------|--|
| CPU                    | Socket            | Dual Socket SP5 (LGA 6096), supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors                              |
|                        | TDP               | Up to 500W   |
| DIMM                   | Slot              | 12+12 DIMM slots (1DPC)  |
| System Physical Status | Form Factor       | 6U Rackmount, NVIDIA MGX™ 6U compliant   |
|                        | Chassis Dimension | 930 x 448 x 353.6mm(36.6" x 17.6" x 13.9")   |
| Front Panel            | Buttons           | Power button w/ LED, Reset button, NMI button, UID button w/ LED   |
|                        | LEDs              | System fault LED, HDD activity LED   |
| Front Panel I/O        | I/O               | 2 RJ45 (1GbE) by Intel® i350, shared with Rear IO<br>1 dedicated IPMI, shares with Rear IO<br>4 Type-A (USB3.2 Gen1)<br>1 DB15 (VGA)               |
|                        | Rear IO           | 2 RJ45 (1GbE) by Intel® i350, shares with Front Panel<br>1 dedicated IPMI, shares with Front Panel   |
| Rear IO Others         |                   | 1 power button w/LED, 1 reset button, 1 NMI button, 1 HDD activity LED, 1 system fault LED<br>2 Type-A (USB3.2 Gen1)<br>1 DB15 (VGA)               |
|                        | Expansion Slots   | 4 FHHL PCIe5.0 x16 [PCIe switch]   |
| Drive Bay / Storage    | External          | 12 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays [PCIe switch]  |
|                        | Internal          | M2_1 (PCIe3.0 x2 or SATA 6Gb/s), supports 22110/2280 form factor [CPU0]<br>M2_2 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU1] |
| Networking             | OSFP              | 8 OSFP (800Gb/s) via NVIDIA® ConnectX®-8 SuperNIC  |
| Power Supply           | Module            | 6+6, 80-PLUS Titanium, 3000W CRPS  |
| System Cooling         | Fan               | 26 PWM 80x80 mm fans, 6 PWM 60x56 mm fans  |
| Management             | BMC               | ASPEED AST2600   |
| Security               |                   | TPM (13-pin, SPI) by optional accessory  |

# 4U16X-GNR2/ZC B300



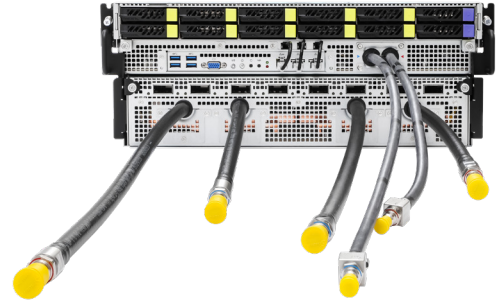
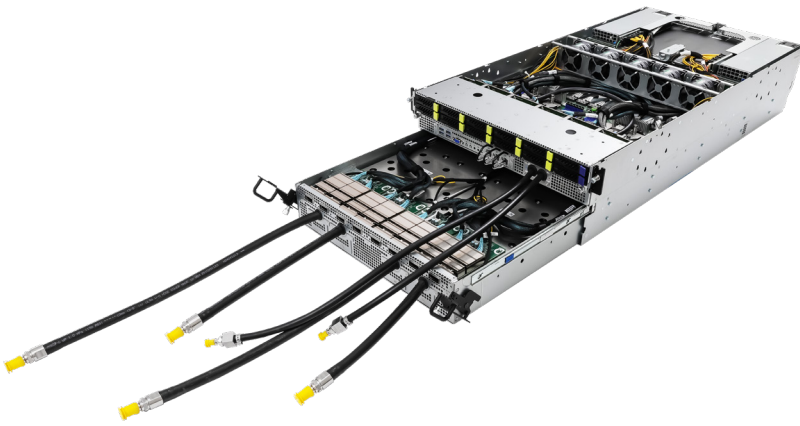
## Application

- AI Training and Inference
- LLM Training
- High Performance Computing



|                        |                                  | 4U16X-GNR2/ZC B300  |
|------------------------|----------------------------------|---|
| CPU                    | Socket                           | 1+1 Socket E2 (LGA 4710)<br>Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors  |
| GPU                    | Supported GPU                    | NVIDIA® HGX™ B300 NVL8  |
| PCIe Switch            | PCIe Switch                      | PEX89104  |
| DIMM                   | Slot                             | 16+16 DDR5 DIMM Slots (2DPC); supports:<br>RDIMM up to 128GB each<br>RDIMM-3DS up to 256GB each<br>RDIMM, RDIMM-3DS, max. 6400MT/s (1DPC), 5200MT/s (2DPC)<br>MRDIMM up to 64GB each, max 8000MT/s (1DPC only)                              |
| System Physical Status | Form Factor<br>Chassis Dimension | 4U Rackmount<br>900 x 448 x 175mm (35.4" x 17.6" x 6.9")  |
| Front Panel            | Buttons<br>LEDs<br>I/O           | Power button w/ LED, Reset button, NMI button, UID button<br>System fault LED, HDD activity LED<br>2 RJ45 (1GbE) by Intel® i350-AM2, shares with Rear IO<br>1 dedicated IPMI, shares with Rear IO<br>4 Type-A (USB3.0 Gen1)<br>1 DB15 (VGA) |
| Rear IO                | RJ45<br>Others                   | 2 RJ45 (1GbE) by Intel® i350-AM2, shares with Front Panel<br>1 dedicated IPMI, shares with Front Panel<br>Power button w/ LED, UID button, 2 Type-A (USB3.0 Gen1)   |
| Expansion Slots        | Rear                             | 2 FHHL PCIe5.0 x16 from PCIe Switch   |
| Drive Bay / Storage    | External<br>Internal             | 10 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays [PCIe Switch]<br>2 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays [CPU1]<br>1 M-key (PCIe5.0 x2), supports 22110/2280 form factor [CPU0]  |
| Networking             | OSFP                             | 8 OSFP (800Gb/s) ports via NVIDIA® ConnectX® -8   |
| Power Supply           | Module                           | 5+5, 80-PLUS Titanium, 3000W CRPS   |
| System Cooling         | Fan                              | 2 PWM 80x80mm fans + 8 PWM 60x56mm fans   |
| Management             | BMC                              | ASPEED AST2600  |
| Security               |                                  | TPM (13-pin, SPI) by optional accessory   |

# 4U16X-TURIN2/DLC B300



## Application

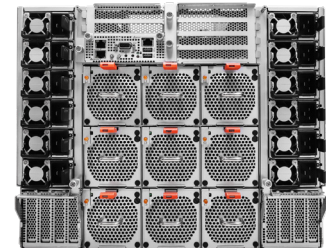
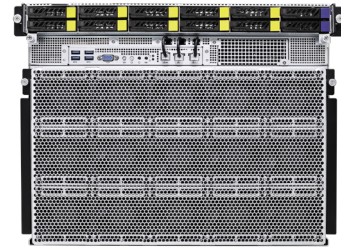
- AI Training and Inference
- LLM Training
- High Performance Computing



### 4U16X-TURIN2/DLC B300

|                               |                   |  |
|-------------------------------|-------------------|--|
| <b>CPU</b>                    | Socket            | 1+1 Socket SP5 (LGA6096); AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors                               |
| <b>GPU</b>                    | Supported GPU     | NVIDIA® HGX™ B300 NVL8   |
| <b>PCIe Switch</b>            | PCIe Switch       | PEX89104   |
| <b>DIMM</b>                   | Slot              | 12+12 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s            |
| <b>System Physical Status</b> | Form Factor       | 4U Rackmount   |
|                               | Chassis Dimension | 900 x 448 x 175mm (35.4" x 17.6" x 6.9")   |
| <b>Front Panel</b>            | Buttons           | Power button w/ LED, Reset button, NMI button, UID button  |
|                               | LEDs              | System fault LED, HDD activity LED   |
|                               | I/O               | 2 RJ45 (1GbE) by Intel® i350-AM2, shares with Rear IO<br>1 dedicated IPMI, shares with Rear IO<br>4 Type-A (USB3.0 Gen1)<br>1 DB15 (VGA) |
| <b>Rear IO</b>                | RJ45              | 2 RJ45 (1GbE) by Intel® i350-AM2, shares with Front Panel<br>1 dedicated IPMI, shares with Front Panel                                   |
|                               | Others            | Power button w/ LED, UID button, 2 Type-A (USB3.0 Gen1)  |
| <b>Expansion Slots</b>        | Rear              | 2 FHHL PCIe5.0 x16 from PCIe Switch  |
| <b>Drive Bay / Storage</b>    | External          | 10 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays [PCIe Switch]  |
|                               | Internal          | 1 M-key (PCIe3.0 x2), supports 22110 form factor [CPU0]<br>1 M-key (PCIe3.0 x4), supports 22110 form factor [CPU1]                       |
| <b>Networking</b>             | OSFP              | 8 OSFP (800Gb/s) ports via NVIDIA® ConnectX®-8   |
| <b>Power Supply</b>           | Module            | 5+5, 80-PLUS Titanium, 3000W CRPS  |
| <b>System Cooling</b>         | Fan               | 2 PWM 80x80mm fans + 8 PWM 60x56mm fans  |
| <b>Management</b>             | BMC               | ASPEED AST2600   |
| <b>Security</b>               |                   | TPM (13-pin, SPI)  |

# 8U8X-GNR2 SYN B200



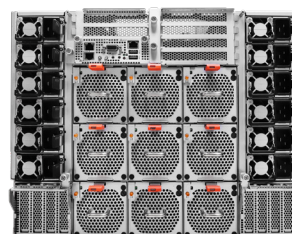
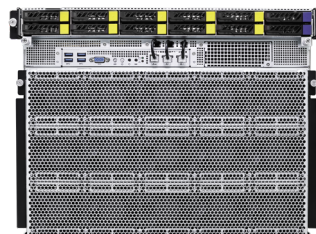
## Application

- Generative AI and Virtual Assistants
- Large Language Models
- AI Training and Inference



|                               |                   | 8U8X-GNR2 SYN B200   |   |
|-------------------------------|-------------------|--|---|
| <b>CPU</b>                    | Socket            | 1+1 Socket E2 (LGA 4710); Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors   |   |
| <b>GPU</b>                    | Supported GPU     | Supports eight NVIDIA B200 GPUs  |   |
| <b>PCIe Switch</b>            | PCIe Switch       | PEX89104   |   |
|                               | Operation Mode    | Synthetic mode for optimized performance of GPU-to-CPU, GPUDirect RDMA NIC, and GPUDirect Storage  |   |
| <b>DIMM</b>                   | Slot              | 16+16 DDR5 DIMM Slots (2DPC); supports:<br>RDIMM up to 128GB each<br>RDIMM-3DS up to 256GB each<br>RDIMM, RDIMM-3DS, max. 6400MT/s (1DPC), 5200MT/s (2DPC)<br>MRDIMM up to 64GB each, max 8000MT/s (1DPC only) |   |
| <b>System Physical Status</b> | Form Factor       | 8U Rackmount   |   |
|                               | Chassis Dimension | 930 x 448 x 353.6mm (36.6" x 17.6" x 13.9")  |   |
| <b>Front Panel</b>            | Buttons           | Power button w/ LED, Reset button, NMI button, UID button  |   |
|                               | LEDs              | System fault LED, HDD activity LED   |   |
|                               | I/O               |  | 2 RJ45 (1GbE) by Intel® i350, shares with Rear IO                               |
|                               |                   |  | 1 dedicated IPMI, shares with Rear IO<br>4 Type-A (USB3.2 Gen1)<br>1 DB15 (VGA) |
| <b>Rear IO</b>                | RJ45              | 2 RJ45 (1GbE) by Intel® i350, shares with Front Panel<br>1 dedicated IPMI, shares with Front Panel   |   |
|                               | Others            | Power button w/ LED, Reset button, NMI button, UID button, 1 DB15 (VGA), 2 Type-A (USB3.2 Gen1)  |   |
| <b>Expansion Slots</b>        | Rear              | 2 FHHL PCIe5.0 x16   |   |
| <b>Drive Bay / Storage</b>    | External          | 8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe Switch<br>2 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from CPU1  |   |
|                               | Internal          | 1 M-key (PCIe5.0 x2), supports 22110/2280 form factor [CPU0]   |   |
| <b>Power Supply</b>           | Module            | 6+6, 80-PLUS Titanium, 3000W CRPS  |   |
| <b>System Cooling</b>         | Fan               | 29 PWM 80x80 mm fans + 4 PWM 40x56 mm fans   |   |
| <b>Management</b>             | BMC               | ASPEED AST2600   |   |
| <b>Security</b>               |                   | TPM (13-pin, SPI) by optional accessory  |   |

# 8U8X-EGS2 SYN B200



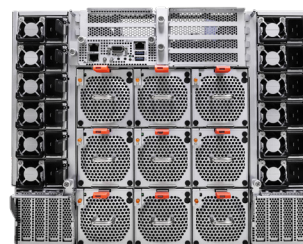
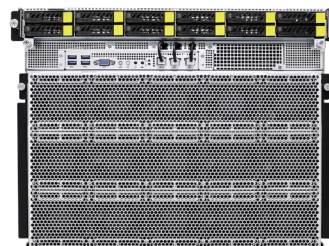
## Application

- Generative AI and Virtual Assistants
- Large Language Models
- AI Training and Inference



| 8U8X-EGS2 SYN B200            |                   |  |
|-------------------------------|-------------------|--|
| <b>CPU</b>                    | Socket            | 1+1 Socket E (LGA 4677); 5th and 4th Gen Intel® Xeon® Scalable processors  |
| <b>GPU</b>                    | Supported GPU     | Supports eight NVIDIA B200 GPUs  |
| <b>PCIe Switch</b>            | PCIe Switch       | PEX89104   |
|                               | Operation Mode    | Synthetic mode for optimized performance of GPU-to-CPU, GPUDirect RDMA NIC, and GPUDirect Storage  |
| <b>DIMM</b>                   | Slot              | 16+16 DDR5 288-pin DIMM Slots (2DPC); supports:<br>RDIMM up to 64GB each, RDIMM-3DS up to 256GB each<br>max. 5600MT/s (1DPC) / 4400MT/s (2DPC) on 5th Gen Intel® Xeon® Scalable Processors<br>max. 4800MT/s (1DPC) / 4400MT/s (2DPC) on 4th Gen Intel® Xeon® Scalable Processors |
| <b>System Physical Status</b> | Form Factor       | 8U Rackmount   |
|                               | Chassis Dimension | 930 x 448 x 353.6mm (36.6" x 17.6" x 13.9")  |
| <b>Front Panel</b>            | Buttons           | Power button w/ LED, Reset button, NMI button, UID button  |
|                               | LEDs              | System fault LED, HDD activity LED   |
|                               | I/O               | 2 RJ45 (1GbE) by Intel® i350, shares with Rear IO<br>1 dedicated IPMI, shares with Rear IO<br>4 Type-A (USB3.2 Gen1)<br>1 DB15 (VGA)   |
| <b>Rear IO</b>                | RJ45              | 2 RJ45 (1GbE) by Intel® i350, shares with Front Panel<br>1 dedicated IPMI, shares with Front Panel   |
|                               | Others            | 1 UID button, 1 DB15 (VGA), 1 Type-A (USB3.2 Gen1)   |
| <b>Expansion Slots</b>        | Rear              | 8 HHHL PCIe5.0 x16<br>2 FHHL PCIe5.0 x16   |
| <b>Drive Bay / Storage</b>    | External          | 8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe Switch<br>2 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from CPU   |
|                               | Internal          | 1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU0]   |
| <b>Power Supply</b>           | Module            | 6+6, 80-PLUS Titanium, 3000W CRPS  |
| <b>System Cooling</b>         | Fan               | 29 PWM 80x80 mm fans + 4 PWM 40x40 mm fans   |
| <b>Management</b>             | BMC               | ASPEED AST2600   |
| <b>Security</b>               |                   | TPM (13-pin, SPI) by optional accessory  |

# 8U8X-TURIN2 SYN B200



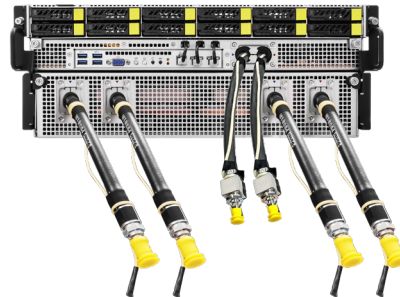
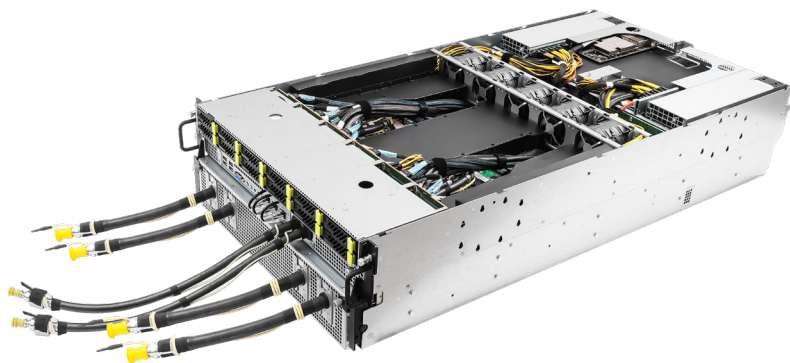
## Application

- Generative AI and Virtual Assistants
- Large Language Models
- AI Training and Inference



| 8U8X-TURIN2 SYN B200   |                   |  |   |
|------------------------|-------------------|--|---|
| CPU                    | Socket            | 1+1 Socket SP5 (LGA6096) AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors  |   |
|                        | TDP               | Up to 500W   |   |
| GPU                    | Supported GPU     | Supports eight NVIDIA B200 GPUs  |   |
| PCIe Switch            | PCIe Switch       | PEX89104   |   |
|                        | Operation Mode    | Synthetic mode for optimized performance of GPU-to-CPU, GPUDirect RDMA NIC, and GPUDirect Storage  |   |
| DIMM                   | Slot              | 12+12 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s                            |   |
| System Physical Status | Form Factor       | 8U Rackmount   |   |
|                        | Chassis Dimension | 930 x 448 x 353.6mm (36.6" x 17.6" x 13.9")  |   |
| Front Panel            | Buttons           | Power button w/ LED, Reset button, NMI button, UID button  |   |
|                        | LEDs              | System fault LED, HDD activity LED   |   |
|                        | I/O               |  | 2 RJ45 (1GbE) by Intel® i350, shares with Rear IO                               |
|                        |                   |  | 1 dedicated IPMI, shares with Rear IO<br>4 Type-A (USB3.2 Gen1)<br>1 DB15 (VGA) |
| Rear IO                | RJ45              | 2 RJ45 (1GbE) by Intel® i350, shares with Front Panel<br>1 dedicated IPMI, shares with Front Panel   |   |
|                        | Others            | 1 UID button, 1 DB15 (VGA), 1 Type-A (USB3.2 Gen1)   |   |
| Expansion Slots        | Rear              | 8 HHHL PCIe5.0 x16<br>1 FHHL PCIe5.0 x16   |   |
|                        |                   |  |   |
| Drive Bay / Storage    | External          | 8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe Switch<br>4 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from CPU                                   |   |
|                        | Internal          | 1 M-key (PCIe3.0 x2 or SATA 6Gb/s), supports 22110/2280 form factor [CPU0]<br>1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU1] |   |
| Power Supply           | Module            | 6+6, 80-PLUS Titanium, 3000W CRPS  |   |
| System Cooling         | Fan               | 29 PWM 80x80 mm fans + 4 PWM 40x40 mm fans   |   |
| Management             | BMC               | ASPEED AST2600   |   |
| Security               |                   | TPM (13-pin, SPI) by optional accessory  |   |

# 4U8X-TURIN2/DLC SYN B200



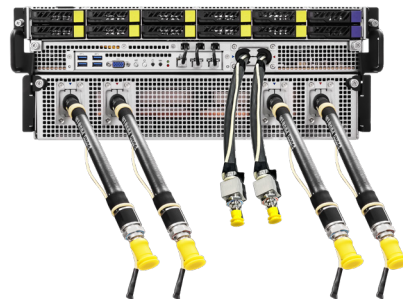
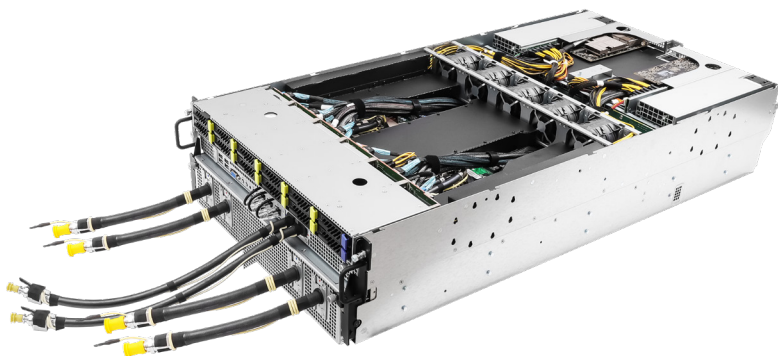
## Application

- AI Real-time Inference
- Large Language Models
- Mixture-of-Experts Models



| 4U8X-TURIN2/DLC SYN B200                         |                            |   |   |
|--|----------------------------|---|---|
| CPU  | Socket                     | 1+1 Socket SP5 (LGA6096); AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors                    |   |
|  | TDP                        | Up to 500W  |   |
| GPU  | Supported GPU              | Supports eight NVIDIA B200 GPUs   |   |
| PCIe Switch                                      | PCIe Switch                | PEX89104  |   |
|  | Operation Mode             | Synthetic mode for optimized performance of GPU-to-CPU, GPUDirect RDMA NIC, and GPUDirect Storage                             |   |
| DIMM   | Slot                       | 12+12 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s |   |
| System Physical Status                           | Form Factor                | 4U Rackmount  |   |
|  | Chassis Dimension          | 900 x 448 x 175mm (35.4" x 17.6" x 6.9")  |   |
| Front Panel                                      | Buttons                    | Power button w/ LED, Reset button, NMI button, UID button   |   |
|  | LEDs                       | System fault LED, HDD activity LED  |   |
|  | I/O                        |   | 2 RJ45 (1GbE) by Intel® i350, shares with Rear IO |
|  |                            |   | 1 dedicated IPMI, shares with Rear IO             |
| Rear IO  | RJ45                       | 4 Type-A (USB3.2 Gen1)  |   |
|  |                            | 1 DB15 (VGA)  |   |
|  |                            | 2 RJ45 (1GbE) by Intel® i350, shares with Front Panel   |   |
|  | USB                        | 1 dedicated IPMI, shares with Front Panel   |   |
| UID button, 1 DB15 (VGA), 2 Type-A (USB3.2 Gen1) |                            |   |   |
| Others   | 2 Type-A (USB3.2 Gen1)     |   |   |
|  | 1 DB15 (VGA), 1 UID w/ LED |   |   |
| Expansion Slots                                  | Rear                       | 8 FHHL PCIe5.0 x16 from PCIe Switch   |   |
|  |                            | 1 FHHL PCIe5.0 x16 from CPU   |   |
| Drive Bay / Storage                              | External                   | 8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe Switch   |   |
|  |                            | 4 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from CPU   |   |
|  | Internal                   | 1 M-key (PCIe3.0 x2 or SATA 6Gb/s), supports 22110/2280 form factor [CPU0]  |   |
|  |                            | 1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU1]  |   |
| Power Supply                                     | Module                     | 4+4, 80-Plus Titanium, 3000W CRPS   |   |
| System Cooling                                   | Fan                        | 10 PWM 60x56 mm fans  |   |
| Management                                       | BMC                        | ASPEED AST2600  |   |
| Security   |                            | TPM (13-pin, SPI) by optional accessory   |   |

# 4U8X-EGS2/DLC SYN B200



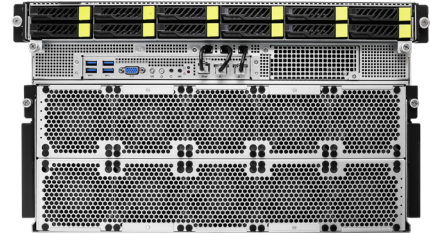
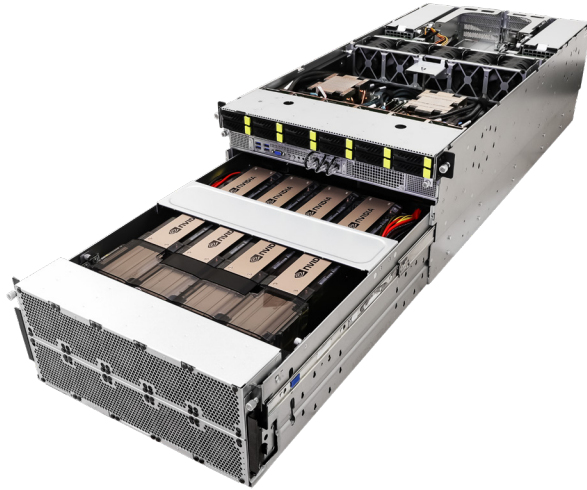
## Application

- AI Real-time Inference
- Large Language Models
- Mixture-of-Experts Models



| 4U8X-EGS2/DLC SYN B200        |                   |  |
|-------------------------------|-------------------|--|
| <b>CPU</b>                    | Socket            | 1+1 Socket E (LGA 4677); Supports 5th and 4th Gen Intel® Xeon® Scalable processors   |
| <b>GPU</b>                    | Supported GPU     | Supports eight NVIDIA B200 GPUs  |
| <b>PCIe Switch</b>            | PCIe Switch       | PEX89104   |
|                               | Operation Mode    | Synthetic mode for optimized performance of GPU-to-CPU, GPUDirect RDMA NIC, and GPUDirect Storage  |
| <b>DIMM</b>                   | Slot              | 16+16 DDR5 288-pin DIMM Slots (2DPC); supports:<br>RDIMM up to 64GB each, RDIMM-3DS up to 256GB each<br>5600MT/s (1DPC) / 4400MT/s (2DPC) on 5th Gen Intel® Xeon® Scalable Processors<br>4800MT/s (1DPC) / 4400MT/s (2DPC) on 4th Gen Intel® Xeon® Scalable Processors |
| <b>System Physical Status</b> | Form Factor       | 4U Rackmount   |
|                               | Chassis Dimension | 900 x 448 x 175mm (35.4" x 17.6" x 6.9")   |
| <b>Front Panel</b>            | Buttons           | Power w/ LED, Reset, NMI, UID  |
|                               | LEDs              | System Fault LED, HDD Activity LED   |
|                               | I/O               | 2 RJ45 (1GbE) by Intel® i350-AM2<br>1 dedicated IPMI<br>4 Type-A (USB3.2 Gen1)   |
| <b>Rear IO</b>                | RJ45              | 2 RJ45 (1GbE) by Intel® i350-AM2, shares with front panel<br>1 dedicated IPMI, shares with front panel   |
|                               | USB               | 2 Type-A (USB3.2 Gen1)   |
|                               | Others            | 1 DB15 (VGA), 1 UID w/ LED   |
| <b>Expansion Slots</b>        | Rear              | 8 FHHL PCIe5.0 x16 from PCIe Switch<br>2 FHHL PCIe5.0 x16 from CPU   |
|                               |                   |  |
| <b>Drive Bay / Storage</b>    | External          | 8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe Switch<br>2 Hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA drive bays from CPU<br>2 Hot-swap 2.5" SATA drive bays [PCH]   |
|                               | Internal          | 1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/22110 form factor [PCH]<br>1 M-key (PCIe3.0 x4), supports 2280/22110 form factor [PCH]   |
| <b>Power Supply</b>           | Module            | 4+4, 80-Plus Titanium, 3000W CRPS  |
| <b>System Cooling</b>         | Fan               | 10 PWM 60x56 mm fans   |
| <b>Management</b>             | BMC               | ASPEED AST2600   |
| <b>Security</b>               |                   | TPM (13-pin, SPI) by optional accessory  |

# 6U8X-TURIN2 SYN H200



## Application

- Generative AI and Virtual Assistants
- Large Language Models
- AI Training and Inference



| 6U8X-TURIN2 SYN H200   |   |   |
|------------------------|---|---|
| CPU                    | Socket  | 1+1 Socket SP5 (LGA6096); AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors                    |
|                        | TDP   | Up to 500W  |
| GPU                    | Supported GPU   | Supports eight NVIDIA H200 GPUs   |
| PCIe Switch            | PCIe Switch   | PEX89104  |
|                        | Operation Mode  | Synthetic mode for optimized performance of GPU-to-CPU, GPUDirect RDMA NIC, and GPUDirect Storage                             |
| DIMM                   | Slot  | 12+12 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s |
| System Physical Status | Form Factor   | 6U Rackmount  |
|                        | Chassis Dimension   | 930 x 448 x 264.7mm (36.6" x 17.6" x 10.4")   |
| Front Panel            | Buttons   | Power w/ LED, Reset, NMI, UID   |
|                        | LEDs  | System Fault LED, HDD Activity LED  |
|                        | I/O   | 2 RJ45 (1GbE) by Intel® i350-AM2  |
|                        |   | 1 dedicated IPMI  |
| Rear IO                | RJ45  | 2 RJ45 (1GbE) by Intel® i350-AM2, shares with front panel   |
|                        |   | 1 dedicated IPMI, shares with front panel   |
|                        | USB   | 2 Type-A (USB3.2 Gen1)  |
|                        | Others  | 1 DB15 (VGA), 1 UID w/ LED  |
| Expansion Slots        | Rear  | 8 HHHL PCIe5.0 x16  |
|                        |   | 2 FHHL PCIe5.0 x16  |
| Drive Bay / Storage    | External  | 8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays  |
|                        |   | 2 Hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA drive bays   |
|                        |   | 2 Hot-swap 2.5" SATA drive bays   |
| Internal               | 1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/22110 form factor [PCH] |   |
|                        | 1 M-key (PCIe3.0 x4), supports 2280/22110 form factor [PCH]               |   |
| Power Supply           | Module  | 4+4, 80-PLUSTitanium, 3000W CRPS  |
| System Cooling         | Fan   | 21 PWM 80x80 mm fans  |
| Management             | BMC   | ASPEED AST2600  |
| Security               |   | TPM (13-pin, SPI) by optional accessory   |

# 2UXGI-THOR



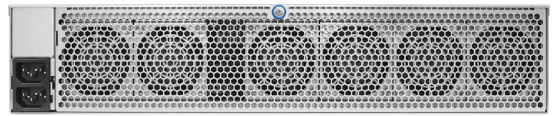
## Application

- Real-Time Generative AI
- Edge AI
- Medical Robotics



| 2UXGI-THOR             |   |  |
|------------------------|---|--|
| System Physical Status | Form Factor   | 2U Short-depth NVIDIA MGX™   |
|                        | Chassis Dimension   | 420 x 438 x 87 mm (16.5" x 17.2" x 3.4")   |
| Processor System       | NVIDIA Module   | NVIDIA IGX™ T7000  |
|                        | iGPU  | 2,560-core NVIDIA Blackwell architecture GPU with 96 fifth-generation Tensor Cores   |
|                        | CPU   | 14-core Arm Neoverse-V3AE 64-bit CPU   |
| Front Panel            | Buttons   | Power button   |
|                        | I/O   | 4 USB Type-A (USB3.2 Gen2)   |
|                        |   | 1 USB Type-C (USB3.2 Gen2)   |
|                        |   | 2 Audio Jacks (Line-out, Mic-in)   |
|                        |   | 1 DisplayPort 1.4a   |
| QSFP112                | 2 QSFP112 (up to 200GbE) by on-board NVIDIA® ConnectX®-7    |  |
| RJ45                   | 2 RJ45 (1GbE) by NVIDIA® IGX Thor™ SoC (1 shared with IPMI) |  |
| Expansion Slots        | PCIe x16  | 1 FHFL dual-slot PCIe5.0 x16 w/ NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition or NVIDIA RTX PRO™ 5000 Blackwell |
| Drive Bay / Storage    | Internal  | 1 M-key (PCIe5.0 x2), supports 2280 form factor  |
| Power Supply           | Module  | 1+1 Hot-swap, 80-PLUS Platinum, 800W CRPS  |
| System Cooling         | Fan   | 2 PWM fixed 60x25 mm fans<br>2 PWM fixed 60x10 mm fans   |
| Management             | BMC   | ASPEED AST2600   |
| Security               |   | TPM (13-pin, SPI)  |

# MECAI-GH200



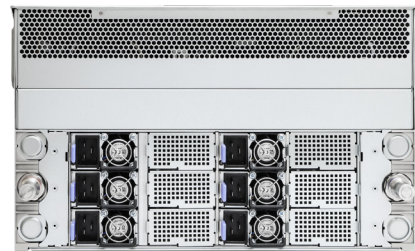
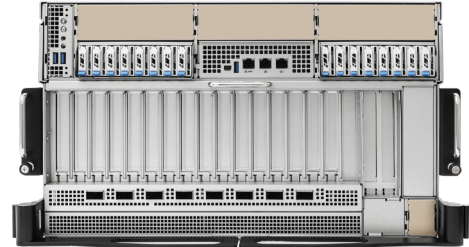
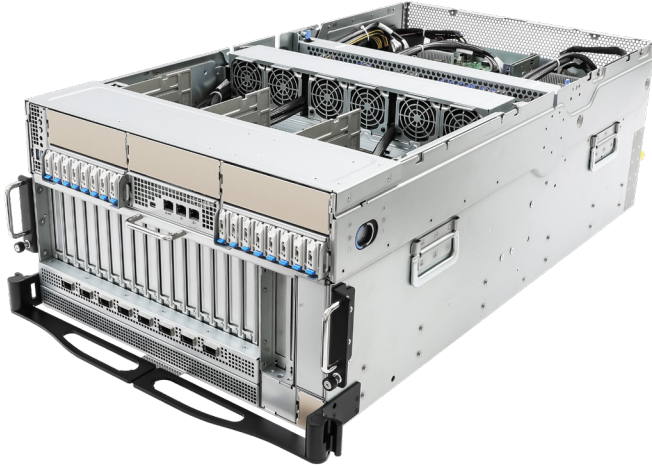
## Application

- AI Training and Inference
- Large Language Models
- Generative AI



| MECAI-GH200            |                   |   |
|------------------------|-------------------|---|
| CPU                    | Socket            | 1 Socket E2 (LGA 4710)<br>Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors                          |
|                        | TDP               | Up to 350W  |
| DIMM                   | Slot              | 16 DIMM slots (2DPC)  |
| System Physical Status | Form Factor       | 1U Rackmount  |
|                        | Chassis Dimension | 710 x 430 x 43.5mm (27.9" x 16.9" x 1.7")   |
| Front Panel            | Buttons           | Power, UID  |
|                        | LEDs              | System alarm LED, Power status LED  |
| Rear IO                | RJ45              | 1 dedicated IPMI  |
|                        | USB               | 2 Type-A (USB3.2 Gen1)  |
|                        | Others            | 1 DB15 (VGA), 1 UID button w/ LED   |
| Expansion Slots        | Rear              | 1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16)  |
| Drive Bay / Storage    | Internal          | 16 fixed E3.S (PCIe5.0 x4) drive bay, supports 7.5mm thickness<br>2 M-key (PCIe5.0 x2), supports 22110/2280 form factor |
|                        | Power Supply      | Module  |
| System Cooling         | Fan               | 6 PWM Easy-swap 40x56 mm fans   |
| Management             |                   | ASPEED BMC AST2600  |
| Security               |                   | TPM (13-pin, SPI) by optional accessory   |

# 6UXGM-GNR2 CX8/DLC



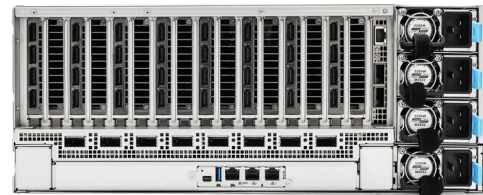
## Application

- AI Training and Inference
- HPC
- Inference and Scientific Research



| 6UXGM-GNR2 CX8/DLC     |                                |   |
|------------------------|--------------------------------|---|
| CPU                    | Socket                         | Dual Socket E2 (LGA 4710), supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors    |
|                        | TDP                            | Up to 350W  |
| DIMM                   | Slot                           | 16+16 DDR5 DIMM Slots (2DPC); supports:   |
|                        |                                | RDIMM up to 128GB each  |
|                        |                                | RDIMM-3DS up to 256GB each  |
|                        |                                | RDIMM, RDIMM-3DS, max. 6400MT/s (1DPC), 5200MT/s (2DPC)<br>MRDIMM up to 64GB each, max 8000MT/s (1DPC only) |
| System Physical Status | Form Factor                    | 6U NVIDIA® MGX™   |
|                        | Chassis Dimension              | 800 x 438 x 264mm (31.5" x 17.2" x 10.4" w/o ear or handle)   |
| Front Panel            | Buttons                        | Power button w/ LED, Reset button, NMI button, UID button w/ LED  |
|                        | LEDs                           | System fault LED, HDD activity LED, LAN1/LAN2 activity LED  |
|                        | I/O                            | 3 Type-A (USB 3.2 Gen1)   |
|                        |                                | 1 dedicated IPMI<br>1 Mini-DisplayPort  |
| Expansion Slots        | Front                          | 8 FHFL dual-slot PCIe5.0 x16  |
|                        |                                | 1 FHHL PCIe5.0 x16  |
| Ethernet               | Additional Ethernet Controller | Intel® i350: 2 RJ45 (1GbE)  |
| Drive Bay / Storage    | External                       | 16 Hot-swap E1.S (PCIe5.0 x4) drive bays, supports 9.5mm/15mm width   |
|                        | Internal                       | 1 M-key (PCIe5.0 x4), supports 2280 form factor [CPU0]  |
|                        |                                | 1 M-key (PCIe5.0 x2), supports 2280 form factor [CPU0]  |
| Networking             | OSFP                           | 8 QSFP112 (400Gb/s) ports via NVIDIA® ConnectX®-8   |
| Power Supply           | Module                         | 3+3, 80-PLUS Titanium, 3200W CRPS   |
| System Cooling         | Fan                            | 6 hot-swap 60x56 mm fans  |
|                        | Liquid Cool                    | Single-phase direct liquid cool   |
| Management             | BMC                            | ASPEED AST2600  |
| Security               |                                | TPM (13-pin, SPI) by optional accessory   |

# 4UXGM-GNR2 CX8



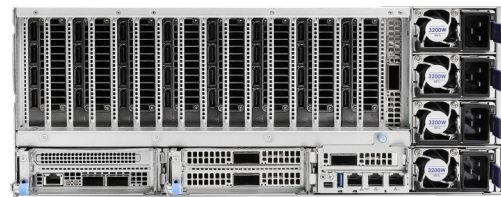
## Application

- AI Fine-tuning and Inferencing
- Digital Twins
- Agentic AI
- Visual Computing



|                        |                   | 4UXGM-GNR2 CX8   |
|------------------------|-------------------|--|
| CPU                    | Socket            | 1+1 Socket E2 (LGA 4710)<br>Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors   |
|                        | TDP               | Up to 350W   |
| DIMM                   | Slot              | 16+16 DDR5 DIMM Slots (2DPC); supports:<br>RDIMM up to 128GB each<br>RDIMM-3DS up to 256GB each<br>RDIMM, RDIMM-3DS, max. 6400MT/s (1DPC), 5200MT/s (2DPC)<br>MRDIMM up to 64GB each, max 8000MT/s (1DPC only) |
|                        | Form Factor       | 4U Rackmount, NVIDIA MGX™ 4U Compliant   |
| System Physical Status | Chassis Dimension | 800 x 438 x 176.5 mm (31.5" x 17.2" x 6.9")  |
|                        | Buttons           | Power button w/ LED, Reset button, NMI button, UID button w/ LED   |
| Front Panel            | LEDs              | System fault LED, HDD activity LED, LAN1/LAN2 activity LED   |
|                        | I/O               | 2 Type-A (USB3.2 Gen1)   |
| Rear IO                | RJ45              | 2 RJ45 (1GbE) by Intel® i350<br>1 dedicated IPMI   |
|                        | Others            | UID button, Reset button, Power button,<br>1 Type-A (USB3.2 Gen1), 1 Mini-DisplayPort  |
| Expansion Slots        | Rear              | 8 FHFL dual-slot PCIe5.0 x16<br>1 FHFL PCIe5.0 x16   |
|                        | External          | 16 Hot-swap E1.S (PCIe5.0 x4) drive bays, supports 9.5mm/15mm width  |
| Drive Bay / Storage    | Internal          | 1 M-key (PCIe5.0 x4), supports 2280 form factor [CPU0]<br>1 M-key (PCIe5.0 x2), supports 2280 form factor [CPU0]   |
|                        | OSFP              | 8 QSFP112 (400Gb/s) ports via NVIDIA® ConnectX®-8  |
| Networking             | Module            | 3+1, 80-PLUS Titanium, 3200W CRPS  |
| Power Supply           | Fan               | 10 Hot-swap 80x80 mm fans  |
| System Cooling         | BMC               | ASPEED AST2600   |
| Management             | Security          | TPM (13-pin, SPI) by optional accessory  |

# 4UXGM-GNR2



## Application

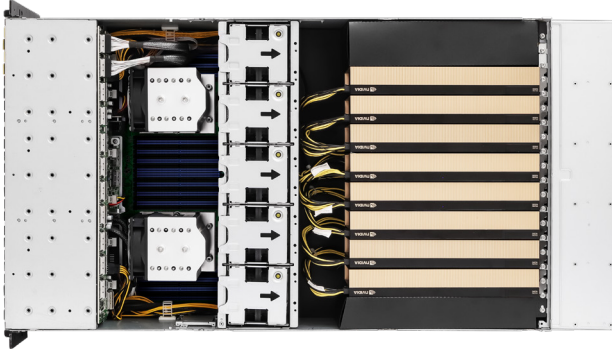
- High Performance Computing
- Data Analytics
- AI Inference



|                        |                   | 4UXGM-GNR2   |
|------------------------|-------------------|--|
| CPU                    | Socket            | 1+1 Socket E2 (LGA 4710)<br>Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors   |
|                        | TDP               | Up to 350W   |
| DIMM                   | Slot              | 16+16 DDR5 DIMM Slots (2DPC); supports:<br>RDIMM up to 128GB each<br>RDIMM-3DS up to 256GB each<br>RDIMM, RDIMM-3DS, max. 6400MT/s (1DPC), 5200MT/s (2DPC)<br>MRDIMM up to 64GB each, max 8000MT/s (1DPC only) |
| System Physical Status | Form Factor       | 4U Rackmount, NVIDIA MGX™ 4U Compliant   |
|                        | Chassis Dimension | 800 x 438 x 176.5 mm (31.5" x 17.2" x 6.9")  |
| Front Panel            | Buttons           | Power button w/ LED, Reset button, NMI button, UID button w/ LED   |
|                        | LEDs              | System fault LED, HDD activity LED, LAN1/LAN2 activity LED   |
|                        | I/O               | 2 Type-A (USB3.2 Gen1)   |
| Rear IO                | RJ45              | 2 RJ45 (1GbE) by Intel® i350<br>1 dedicated IPMI   |
|                        | Others            | UID button, Reset button, Power button,<br>1 Type-A (USB3.2 Gen1), 1 Mini-DisplayPort  |
| Expansion Slots        | Rear              | 8 FHFL dual-slot PCIe5.0 x16<br>5 FHHL PCIe5.0 x16<br>1 HHHL PCIe5.0 x16   |
| Drive Bay / Storage    | External          | 16 Hot-swap E1.S (PCIe5.0 x4) drive bays, supports 9.5mm/15mm width  |
|                        | Internal          | 1 M-key (PCIe5.0 x4), supports 2280 form factor [CPU0]<br>1 M-key (PCIe5.0 x2), supports 2280 form factor [CPU0]   |
| Power Supply           | Module            | 3+1, 80-PLUS Titanium, 3200W CRPS  |
| System Cooling         | Fan               | 10 Hot-swap 80x80 mm fans  |
| Management             | BMC               | ASPEED AST2600   |
| Security               |                   | TPM (13-pin, SPI) by optional accessory  |

# 4U8G-GNR2

## 4U8G-GNR2/RF+ · 4U8G-GNR2/SUPER\_4L



### Application

- Big Data Analytics
- Machine Learning
- LLM Inference



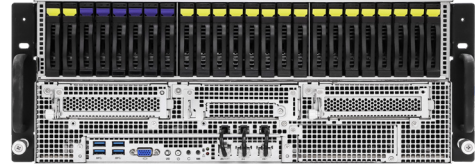
|                        |                   | 4U8G-GNR2  | 4U8G-GNR2/RF+  | 4U8G-GNR2/SUPER_4L   |
|------------------------|-------------------|--|--|--|
| CPU                    | Socket            | 1+1 Socket E2 (LGA 4710)<br>Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors   |  |  |
|                        | TDP               | Up to 350W   |  |  |
| DIMM                   | Slot              | 16+16 DDR5 DIMM Slots (2DPC); supports:<br>RDIMM up to 128GB each<br>RDIMM, max. 6400MT/s (1DPC), 5200MT/s (2DPC)<br>MRDIMM up to 64GB each, max 8000MT/s (1DPC only)      |  |  |
| System Physical Status | Form Factor       | 4U Rackmount   |  |  |
|                        | Chassis Dimension | 786 x 438 x 176.5 mm (30.9" x 17.2" x 6.9")  | 867 x 438 x 176.5 mm (34.1" x 17.2" x 6.9")                |  |
| Front Panel            | Buttons           | Power button w/ LED, Reset button, NMI button, UID button  |  |  |
|                        | LEDs<br>I/O       | System fault LED, HDD activity LED<br>2 RJ45 (1GbE) by Intel® i350, shares with Rear IO<br>1 dedicated IPMI, shares with Rear IO<br>4 Type-A (USB3.2 Gen1)<br>1 DB15 (VGA) |  |  |
| Rear IO                | RJ45              | 2 RJ45 (1GbE) by Intel® i350, shares with Front Panel<br>1 dedicated IPMI, shares with Front Panel   |  |  |
|                        | Others            | 2 Type-A (USB3.2 Gen1), UID button, 1 DB15 (VGA)   |  |  |
| Expansion Slots        | Front             | 1 FHHL PCIe5.0 x16<br>1 FHHL PCIe5.0 x8  |  | N/A  |
|                        | Rear              | 8 FHFL dual-slot PCIe5.0 x16   |  | 8 FHFL dual-slot PCIe5.0 x16<br>1 FHFL PCIe5.0 x16<br>1 FHFL PCIe5.0 x8          |
| Drive Bay / Storage    | External          | 4 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays or<br>24 hot-swap 2.5" SATA/SAS <sup>Note1</sup> drive bays   |  | 4 Hot-swap 3.5"/2.5" NVMe (PCIe4.0 x4) /<br>SATA/SAS <sup>Note2</sup> drive bays |
|                        | Internal          | 1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU0]   |  |  |
| Power Supply           | Module            | 3+1, 80-PLUS Titanium, 2700W CRPS  |  |  |
| System Cooling         | Fan               | 5 middle hot-swap 80x80 mm fans<br>(20400/18000 RPM)   | 5 middle + 5 rear hot-swap 80x80 mm fans (20400/18000 RPM) |  |
| Management             | BMC               | ASPEED AST2600   |  |  |
| Security               |                   | TPM (13-pin, SPI) by optional accessory  |  |  |

Note1: Additional RAID/HBA card required to support the 24 x 2.5" SATA/SAS drive bays

Note2: Additional RAID/HBA card required to support the 4x SATA/SAS drive bays

# 4U10G-GNR2

## 4U10G-GNR2/RF+



### Application

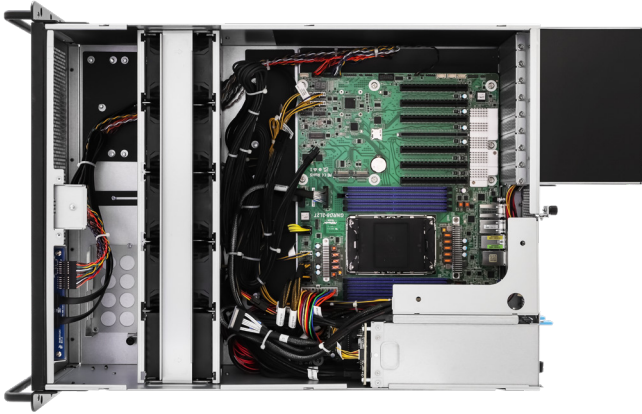
- AI Real-time Inference
- Big Data Analytics
- Machine Learning



|                        |                   | 4U10G-GNR2  | 4U10G-GNR2/RF+   |
|------------------------|-------------------|---|--|
| CPU                    | Socket            | 1+1 Socket E2 (LGA 4710)<br>Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors  |  |
|                        | TDP               | Up to 350W  |  |
| DIMM                   | Slot              | 16+16 DDR5 DIMM Slots (2DPC); supports:<br>RDIMM up to 128GB each<br>RDIMM, max. 6400MT/s (1DPC), 5200MT/s (2DPC)<br>MRDIMM up to 64GB each, max 8000MT/s (1DPC only) |  |
| System Physical Status | Form Factor       | 4U Rackmount  |  |
|                        | Chassis Dimension | 786 x 438 x 176.5 mm (30.9" x 17.2" x 6.9")   | 867 x 438 x 176.5 mm (34.1" x 17.2" x 6.9")                |
| Front Panel            | Buttons           | Power button w/ LED, Reset button, NMI button, UID button   |  |
|                        | LEDs              | System fault LED, HDD activity LED  |  |
|                        | I/O               | 2 RJ45 (1GbE) by Intel® i350, shares with Rear IO<br>1 dedicated IPMI, shares with Rear IO<br>4 Type-A (USB3.2 Gen1)<br>1 DB15 (VGA)                                  |  |
| Rear IO                | RJ45              | 2 RJ45 (1GbE) by Intel® i350, shares with Front Panel<br>1 dedicated IPMI, shares with Front Panel  |  |
|                        | Others            | 2 Type-A (USB3.2 Gen1), UID button, 1 DB15 (VGA)  |  |
| Expansion Slots        | Front             | 2 FHFL PCIe5.0 x16<br>1 OCP NIC 3.0 (PCIe5.0 x16)   |  |
|                        | Rear              | 10 FHFL dual-slot PCIe5.0 x16 (with PEX89104 PCIe Switch)<br>1 FHFL single-slot PCIe5.0 x16 (CPU direct link)   |  |
| Drive Bay / Storage    | External          | 18 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays<br>6 Hot-swap 2.5" SATA/SAS <sup>Note1</sup> drive bays   |  |
|                        | Internal          | 1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU0]  |  |
| Power Supply           | Module            | 3+1, 80-PLUS Titanium, 3200W CRPS   |  |
| System Cooling         | Fan               | 5 middle hot-swap 80x80 mm fans (20400/18000 RPM)   | 5 middle + 5 rear hot-swap 80x80 mm fans (20400/18000 RPM) |
| Management             | BMC               | ASPEED AST2600  |  |
| Security               |                   | TPM (13-pin, SPI) by optional accessory   |  |

Note1: Additional RAID/HBA card required to support the 6x 2.5" SATA/SAS drive bays

# 4U4G-GNR/HPR



## Application

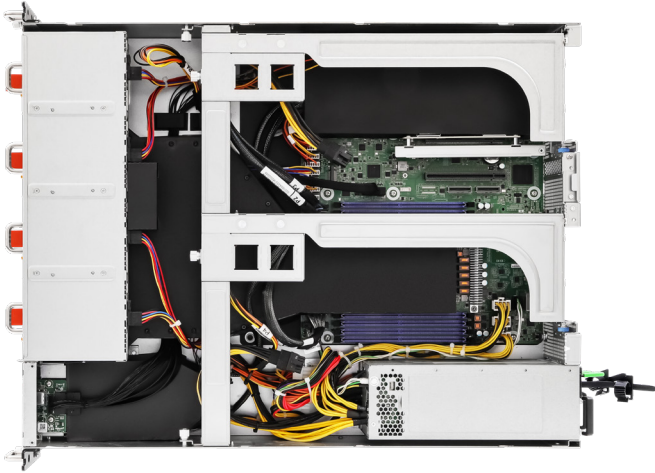
- AI Inference
- Machine Learning
- Rendering



|                        |                   | 4U4G-GNR/HPR   |
|------------------------|-------------------|--|
| CPU                    | Socket            | 1 Socket E2 (LGA 4710)<br>Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors   |
|                        | TDP               | Up to 350W   |
| DIMM                   | Slot              | 8 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s<br>MRDIMM up to 64GB each, max. 8000MT/s |
| System Physical Status | Form Factor       | 4U Rackmount   |
|                        | Chassis Dimension | 710 x 430.4 x 174.8 mm (27.9" x 16.9" x 6.9" with GPU fans; 596mm or 23.5" in depth w/o GPU fans)  |
| Front Panel            | Buttons           | Power button w/ LED, ID button w/ LED, Reset button, NMI button  |
|                        | LEDs              | LAN activity LED, HDD activity LED, System event LED   |
|                        | I/O               | 2 Type-A (USB3.2 Gen1)   |
| Rear IO                | RJ45              | 2 RJ45 (10GbE) by Intel® X710-AT2<br>2 RJ45 (1GbE) by Intel® i210<br>1 dedicated IPMI  |
|                        | Others            | 2 Type-A (USB3.2 Gen1), UID button, 1 DB15 (VGA)   |
| Expansion Slots        | Rear              | 4 dual-slot or 7 single-slot FHFL PCIe5.0 x16<br>1 FHFL single-slot PCIe5.0 x8   |
| Drive Bay / Storage    | Internal          | 2 M-key (PCIe5.0 x4), supports 22110/2280 form factor (includes cage for 2 fixed 2.5" drives)  |
| Power Supply           | Module            | 2+1, 80-PLUS Titanium, 2700W CRPS  |
| System Cooling         | Fan               | Middle: 4 PWM fixed 80x80mm fans<br>Rear: 2 PWM fixed 80x80mm GPU fans   |
| Management             | BMC               | ASPEED AST2600   |
| Security               |                   | TPM (13-pin, SPI) by optional accessory  |

# 2U2G-GNR/HPR

## 2U2G-GNR



### Application

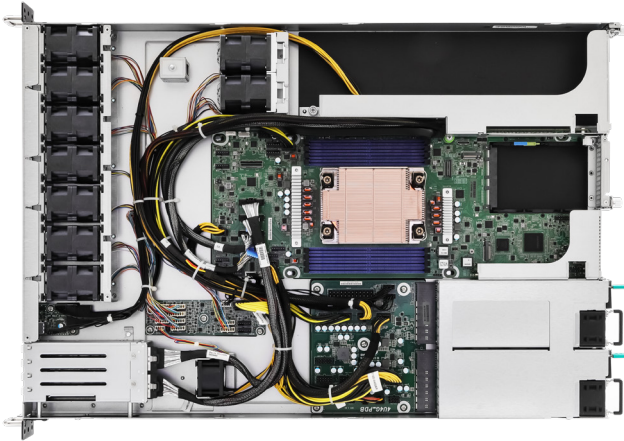
- AI Inference
- Edge AI
- Data Analytics



|                        |                   | 2U2G-GNR/HPR   | 2U2G-GNR                          |
|------------------------|-------------------|--|-----------------------------------|
| CPU                    | Socket            | 1 Socket E2 (LGA 4710)<br>Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors   |                                   |
|                        | TDP               | Up to 350W   |                                   |
| DIMM                   | Slot              | 8 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s<br>MRDIMM up to 64GB each, max. 8000MT/s |                                   |
| System Physical Status | Form Factor       | 2U Rackmount   |                                   |
|                        | Chassis Dimension | 580 x 438 x 87 mm (22.8" x 17.2" x 3.4")   |                                   |
| Front Panel            | Buttons           | Power button w/ LED, UID button w/ LED, System reset   |                                   |
|                        | LEDs              | HDD activity LED, System event LED   |                                   |
|                        | I/O               | 2 Type-A (USB3.2 Gen1)   |                                   |
| Rear IO                | RJ45              | 1 dedicated IPMI   |                                   |
|                        | Others            | 2 Type-A (USB3.2 Gen1), 1 UID button w/ LED, 1 DB15 (VGA), 1 DB9 (COM)   |                                   |
| Expansion Slots        | Rear              | 2 FHFL dual-slot PCIe5.0 x16<br>1 HHHL single-slot PCIe5.0 x16   |                                   |
|                        | Internal          | 2 M-key (PCIe5.0 x4), supports 2280 form factor  |                                   |
| Drive Bay / Storage    | External          | 2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays   |                                   |
| Power Supply           | Module            | 1+1, 80-PLUS Titanium, 2700W CRPS  | 1+1, 80-PLUS Titanium, 2000W CRPS |
| System Cooling         | Fan               | Front: 4 PWM hot-swap 80x56 mm fans,<br>Middle: 1 PWM fixed 40x28 mm fan   |                                   |
| Management             | BMC               | ASPEED AST2600   |                                   |
| Security               |                   | TPM (13-pin, SPI) by optional accessory  |                                   |

# 1U1G2E-GNR

## 1U1G4E1S-GNR



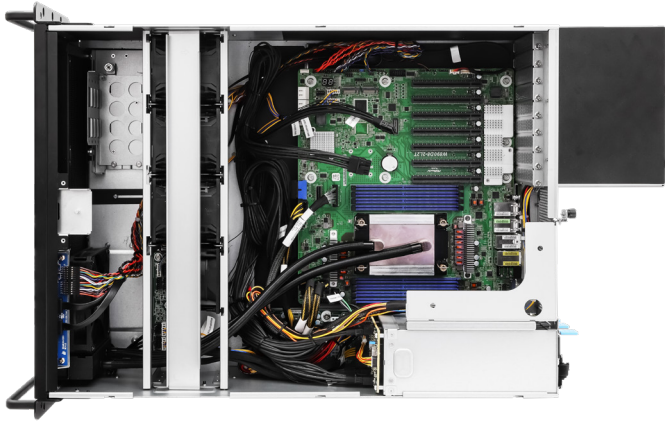
### Application

- Edge AI
- Data Visualization



|                        |                   | 1U1G2E-GNR   | 1U1G4E1S-GNR                            |
|------------------------|-------------------|--|---|
| CPU                    | Socket            | 1 Socket E2 (LGA 4710)<br>Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors   |   |
|                        | Slot              | 8 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s<br>MRDIMM up to 64GB each, max. 8000MT/s |   |
| System Physical Status | Form Factor       | 1U Rackmount   |   |
|                        | Chassis Dimension | 650 x 438.0 x 43.5 mm (25.6" x 17.2" x 1.7")   |   |
| Front Panel            | Buttons           | Power button w/ LED, System Reset  |   |
|                        | LEDs              | System fault, UID LED, HDD activity LED  |   |
| Rear IO                | I/O               | 2 Type-A (USB3.2 Gen1)   |   |
|                        | RJ45              | 1 dedicated IPMI   |   |
|                        | Others            | 1 UID button w/ LED, 1 Mini DisplayPort (VGA), 2 Type-A (USB3.2 Gen1), 1 dedicated IPMI  |   |
| Expansion Slots        | Rear              | 1 FHFL dual-slot PCIe5.0 x16   |   |
|                        |                   | 1 HHL single-slot PCIe5.0 x16  |   |
|                        |                   | 1 OCP NIC 3.0 (PCIe5.0 x16)  |   |
| Drive Bay / Storage    | External          | 2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays   | 4 Hot-swap E1.S (PCIe5.0 x4) drive bays |
|                        | Internal          | M2_1 (PCIe5.0 / CXL2.0 x4), supports 2280 form factor<br>M2_2 (PCIe5.0 / CXL2.0 x4), supports 22110 form factor  |   |
| Power Supply           | Module            | 1+1, 80-PLUS Titanium, 1600W CRPS  |   |
| System Cooling         | Fan               | 9 PWM Hot-swap 40x56 mm fans<br>1 PWM Hot-swap 40x28 mm fans   |   |
| Management             | BMC               | ASPEED AST2600   |   |
| Security               |                   | TPM (13-pin, SPI) by optional accessory  |   |

# 4U4G-W890/HPR AQUA



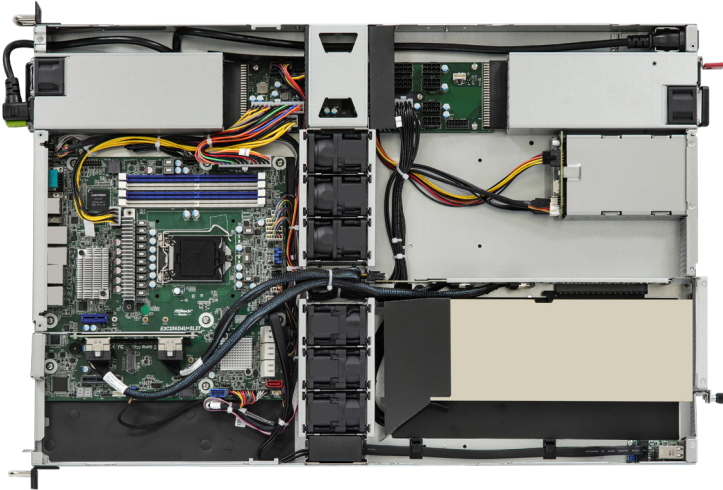
## Application

- AI Inference
- Machine Learning
- Visual Computing



|                        |                   | 4U4G-W890/HPR AQUA   |
|------------------------|-------------------|--|
| CPU                    | Socket            | 1 Single Socket E2 (LGA4710-2)<br>Supports Intel® Xeon® 6 Processors for Workstations  |
|                        | TDP               | Up to 350W   |
| DIMM                   | Slot              | 8 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s<br>MRDIMM up to 64GB each, max. 8000MT/s |
| System Physical Status | Form Factor       | 4U Rackmount   |
|                        | Chassis Dimension | 731.6 x 430.4 x 174.8 mm (28.8" x 16.9" x 6.9" with GPU fans; 596mm or 23.5" in depth w/o GPU fans)  |
| Front Panel            | Buttons           | Power button w/ LED, ID button w/ LED, Reset button, NMI button  |
|                        | LEDs              | LAN activity LED, HDD activity LED, System event LED   |
|                        | I/O               | 2 Type-A (USB3.2 Gen1)   |
| Rear IO                | RJ45              | 2 RJ45 (10GbE) by Intel® E610<br>2 RJ45 (1GbE) by Intel® i210<br>1 dedicated IPMI  |
|                        | Others            | 2 Type-A (USB3.2 Gen1), 1 UID button w/ LED, 1 DB15 (VGA)  |
| Expansion Slots        | Rear              | 4 dual-slot or 7 single-slot FHFL PCIe5.0 x16<br>1 FHFL single-slot PCIe5.0 x16  |
| Drive Bay / Storage    | Internal          | 4 fixed 2.5" NVMe (PCIe5.0 x4)/SATA drive bays (cables included in accessories)  |
|                        |                   | 2 M-key (PCIe4.0 x4), supports 22110 form factor   |
| Power Supply           | Module            | 2+1, 80-PLUS Titanium, 2700W CRPS  |
| System Cooling         | Fan               | Radiator: 1 PWM fixed 120x25 mm fan<br>Middle: 3 PWM fixed 80x80 mm fans, 1 PWM fixed 80x38 mm fan<br>Rear: 2 PWM fixed 80x80 mm GPU fans                          |
| Management             | BMC               | ASPEED AST2600   |
| Security               |                   | TPM (13-pin, SPI)  |

# 1U1G-C256/2L2T



## Application

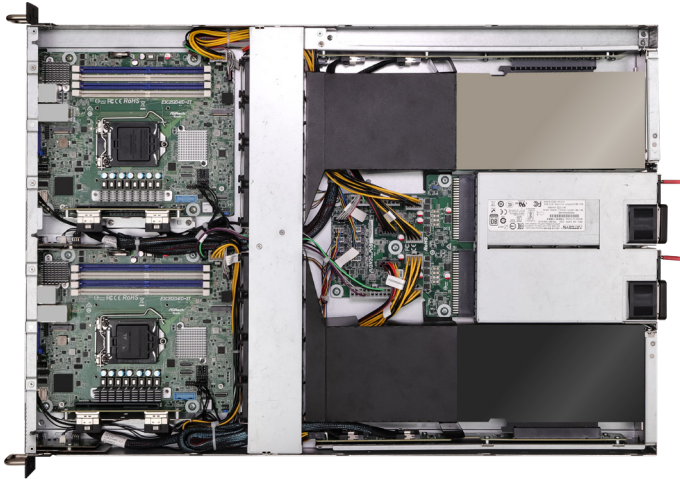
- Rendering
- Virtualization
- Visualization
- Deep Learning



|                               |                   | 1U1G-C256/2L2T  |
|-------------------------------|-------------------|---|
| <b>System Physical Status</b> | Form Factor       | 1U Rackmount  |
|                               | Chassis Dimension | 438.0x 660.4x 43.5 mm (without ear)   |
| <b>CPU</b>                    | Socket            | 1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10 <sup>th</sup> Gen Intel® Pentium® Series Processors  |
| <b>DIMM</b>                   | Slot              | 4 DDR4 288-pin DIMM Slots (2DPC); supports:<br>ECC/non-ECC UDIMM up to 32GB each<br>max. 3200MT/s on Intel® Xeon® E-2300 Series Processors<br>max. 2666MT/s on 10 <sup>th</sup> Gen Intel® Pentium® Series Processors |
| <b>Front Panel</b>            | Buttons           | Reset, Power w/ LED, UID w/ LED   |
|                               | LEDs              | System Fail, LAN1, LAN2   |
|                               | I/O               | 2 RJ45(10GbE) by Intel® X710-AT2, 2 RJ45 (1GbE) by i210,<br>2 Type-A (USB3.2 Gen1), 1 DB15 (VGA), 1 DB9 (COM),<br>1 HDMI, 1 dedicated IPMI  |
| <b>Rear I/O</b>               | USB               | 2 Type-A (USB3.2 Gen1)  |
| <b>Expansion Slots</b>        | Rear              | 1 FH dual-slot PCIe4.0 x16  |
| <b>Drive Bay/ Storage</b>     | External          | 2 SFF 2.5" (SATA 6Gb/s)   |
|                               | Internal          | 1 M-key <sup>Note1</sup> (PCIe3.0 x4 or SATA 6Gb/s); support 22110/2280/2260 form factor [PCH]<br>1 M-key (PCIe3.0 x4); support 2280/2260 form factor [PCH]   |
| <b>Power Supply</b>           | Module            | 1+1 Platinum 1200W CRPS   |
| <b>System Cooling</b>         | Fan               | 8 dual-rotor 40x56 mm fans  |
| <b>Management</b>             | BMC               | ASPEED BMC AST2500  |
| <b>Security</b>               |                   | TPM (13-pin, SPI) by optional accessory   |

Note1: SATA0 will be disabled when M2\_1 populated with SATA device

# 1U2N2G-C252/2T



## Application

- Visual Computing
- Data Processing

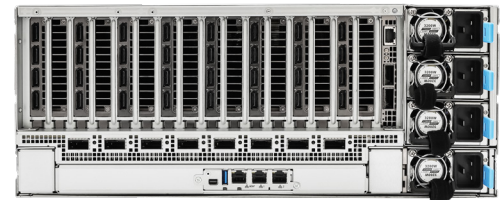
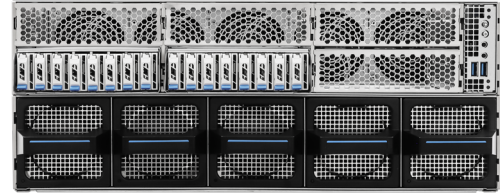


|                                   |                   | 1U2N2G-C252/2T  |
|-----------------------------------|-------------------|---|
| <b>System Physical Status</b>     | Form Factor       | 1U Rackmount  |
|                                   | Chassis Dimension | 650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")  |
| <b>CPU (per node)</b>             | Socket            | Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10 <sup>th</sup> Gen Intel® Pentium® Series Processors  |
| <b>DIMM (per node)</b>            | Slot              | 4 DDR4 288-pin DIMM Slots (2DPC); supports:<br>ECC/non-ECC UDIMM up to 32GB each<br>max. 3200MT/s on Intel® Xeon® E-2300 Series Processors<br>max. 2666MT/s on 10th Gen Intel® Pentium® Series Processors |
| <b>Front Panel (per node)</b>     | Buttons           | UID w/LED, Power w/LED  |
|                                   | LEDs              | System Fail   |
|                                   | RJ45              | 2 RJ45(10GbE) by Intel X710-AT2<br>1 dedicated IPMI   |
|                                   | USB               | 2 USB 3.2 Gen1 ports  |
|                                   | VGA               | 1 DB15  |
| <b>Expansion Slots (per node)</b> | Rear              | 1 FH dual-slot PCIe4.0 <sup>Note1</sup> x16   |
| <b>Storage (per node)</b>         | Internal          | 1 M-key <sup>Note2</sup> (PCIe4.0 x4); supports 2280 form factor [CPU]<br>1 M-key (PCIe3.0 x4); supports 2280 form factor [PCH]   |
|                                   | Module            | 1+1 Platinum 1200W CRPS   |
| <b>Power Supply</b>               |                   |   |
| <b>System Cooling</b>             | Fan               | 8 dual-rotor 40x56 mm fans  |
| <b>Management (per node)</b>      | BMC               | ASPEED BMC AST2500  |
| <b>Security (per node)</b>        |                   | TPM (13-pin, SPI) by optional accessory   |

Note1: Supports PCIe3.0 only when installing 10th Gen Intel® Pentium® Series Processors

Note2: M.2 from CPU will not function when installing 10th Gen Intel® Pentium® Series Processors

# 4UXGM-TURIN2 CX8



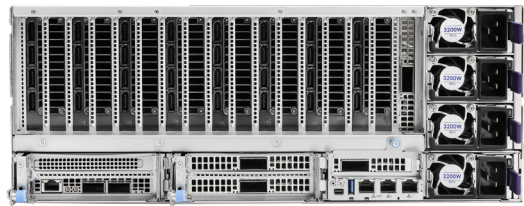
## Application

- AI Fine-tuning and Inferencing
- Digital Twins
- Agentic AI
- Visual Computing



|                        |                   | 4UXGM-TURIN2 CX8  |
|------------------------|-------------------|---|
| CPU                    | Socket            | Dual Socket SP5 (LGA 6096)  |
|                        | TDP               | AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors<br>Up to 500W                                |
| DIMM                   | Slot              | 12+12 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s |
| System Physical Status | Form Factor       | 4U Rackmount, NVIDIA MGX™ 4U Compliant  |
|                        | Chassis Dimension | 800 x 438 x 176.5 mm (31.5" x 17.2" x 6.9")   |
| Front Panel            | Buttons           | Power button w/ LED, Reset button, NMI button, UID button w/ LED  |
|                        | LEDs              | System fault LED, HDD activity LED, LAN1/LAN2 activity LED  |
| Rear IO                | I/O               | 2 Type-A (USB3.2 Gen1)  |
|                        | RJ45              | 2 RJ45 (1GbE) by Intel® i350<br>1 dedicated IPMI  |
| Expansion Slots        | Others            | UID button, Reset button, Power button,<br>1 Type-A (USB3.2 Gen1), 1 Mini-DisplayPort   |
|                        | Rear              | 8 FHFL dual-slot PCIe5.0 x16<br>1 FHHL PCIe5.0 x16  |
| Drive Bay / Storage    | External          | 16 Hot-swap E1.S (PCIe5.0 x4) drive bays, supports 9.5mm/15mm width   |
|                        | Internal          | 1 M-key (PCIe3.0 x4), supports 2280 form factor [CPU0]<br>1 M-key (PCIe3.0 x4), supports 2280 form factor [CPU1]              |
| Networking             | OSFP              | 8 QSFP112 (400Gb/s) ports via NVIDIA® ConnectX®-8   |
| Power Supply           | Module            | 3+1, 80-PLUS Titanium, 3200W CRPS   |
| System Cooling         | Fan               | 10 Hot-swap 80x80 mm fans   |
| Management             | BMC               | ASPEED AST2600  |
| Security               |                   | TPM (13-pin, SPI)   |

# 4UXGM-TURIN2



## Application

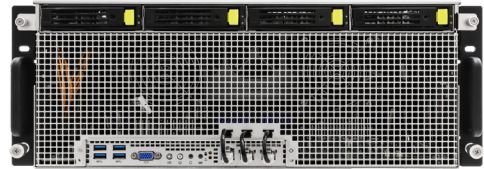
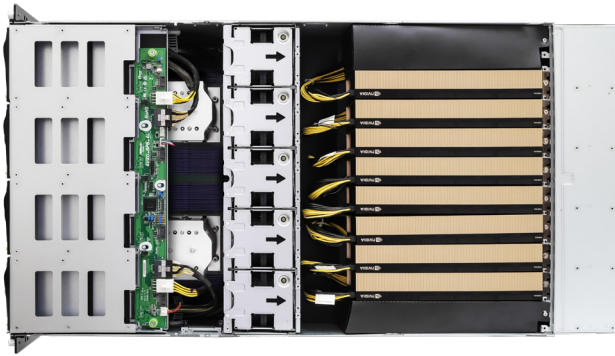
- High Performance Computing
- Data Analytics
- AI Inference



| 4UXGM-TURIN2           |                   |   |
|------------------------|-------------------|---|
| CPU                    | Socket            | Dual Socket SP5 (LGA 6096)<br>AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors                |
|                        | TDP               | Up to 500W  |
| DIMM                   | Slot              | 12+12 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s |
| System Physical Status | Form Factor       | 4U Rackmount, NVIDIA MGX™ 4U Compliant  |
|                        | Chassis Dimension | 800 x 438 x 176.5 mm (31.5" x 17.2" x 6.9")   |
| Front Panel            | Buttons           | Power button w/ LED, Reset button, NMI button, UID button w/ LED  |
|                        | LEDs              | System fault LED, HDD activity LED, LAN1/LAN2 activity LED  |
| Rear IO                | I/O               | 2 Type-A (USB3.2 Gen1)  |
|                        | RJ45              | 2 RJ45 (1GbE) by Intel® i350<br>1 dedicated IPMI  |
| Expansion Slots        | Others            | UID button, Reset button, Power button,<br>1 Type-A (USB3.2 Gen1), 1 Mini-DisplayPort   |
|                        | Rear              | 8 FHFL dual-slot PCIe5.0 x16<br>5 FHHL PCIe5.0 x16<br>1 HHHL PCIe5.0 x16  |
| Drive Bay / Storage    | External          | 16 Hot-swap E1.S (PCIe5.0 x4) drive bays, supports 9.5mm/15mm width   |
|                        | Internal          | 1 M-key (PCIe3.0 x4), supports 2280 form factor [CPU0]<br>1 M-key (PCIe3.0 x4), supports 2280 form factor [CPU1]              |
| Power Supply           | Module            | 3+1, 80-PLUS Titanium, 3200W CRPS   |
| System Cooling         | Fan               | 10 Hot-swap 80x80 mm fans   |
| Management             | BMC               | ASPEED AST2600  |
| Security               |                   | TPM (13-pin, SPI)   |

# 4U8G-TURIN2

## 4U8G-TURIN2/RF+ · 4U8G-TURIN2/SUPER\_4L



### Application

- Big Data Analytics
- Machine Learning
- LLM Inference



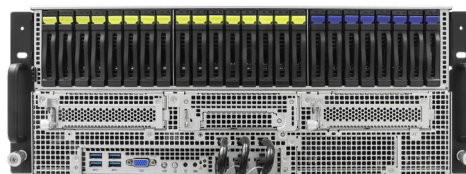
|                        |                   | 4U8G-TURIN2  | 4U8G-TURIN2/RF+  | 4U8G-TURIN2/SUPER_4L |
|------------------------|-------------------|--|--|----------------------|
| CPU                    | Socket            | Dual Socket SP5 (LGA 6096)<br>AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors   |  |                      |
|                        | TDP               | Up to 500W   |  |                      |
| DIMM                   | Slot              | 12+12 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s                            |  |                      |
|                        | Form Factor       | 4U Rackmount   |  |                      |
| System Physical Status | Chassis Dimension | 786 x 438 x 176.5 mm (30.9" x 17.2" x 6.9")  | 867 x 438 x 176.5 mm (34.1" x 17.2" x 6.9")                                      |                      |
|                        | Buttons           | Power button w/ LED, Reset button, NMI button, UID button  |  |                      |
| Front Panel            | LEDs              | System fault LED, HDD activity LED   |  |                      |
|                        | I/O               | 2 RJ45 (1GbE) by Intel® i350, shares with Rear IO<br>1 dedicated IPMI, shares with Rear IO<br>4 Type-A (USB3.2 Gen1)<br>1 DB15 (VGA)                     |  |                      |
|                        |                   |  |  |                      |
| Rear IO                | RJ45              | 2 RJ45 (1GbE) by Intel® i350, shares with Front Panel<br>1 dedicated IPMI, shares with Front Panel   |  |                      |
|                        | Others            | 2 Type-A (USB3.2 Gen1), UID button, 1 DB15 (VGA)   |  |                      |
| Expansion Slots        | Front             | 1 FHHL PCIe5.0 x8<br>1 OCP NIC 3.0 (PCIe5.0 x8)  |  |                      |
|                        | Rear              | 8 FHFL dual-slot PCIe5.0 x16   |  |                      |
|                        |                   |  |  |                      |
| Drive Bay / Storage    | External          | 4 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays or<br>24 Hot-swap 2.5" SATA/SAS <sup>Note1</sup> drive bays   | 4 Hot-swap 3.5"/2.5" NVMe (PCIe4.0 x4) /<br>SATA/SAS <sup>Note2</sup> drive bays |                      |
|                        | Internal          | 1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU0]<br>1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU1] |  |                      |
| Power Supply           | Module            | 3+1, 80-PLUS Titanium, 2700W CRPS  |  |                      |
| System Cooling         | Fan               | 5 middle hot-swap 80x80 mm fans<br>(20400/18000 RPM)   | 5 middle + 5 rear hot-swap 80x80 mm fans (20400/18000 RPM)                       |                      |
| Management             | BMC               | ASPEED AST2600   |  |                      |
| Security               |                   | TPM (13-pin, SPI)  |  |                      |

Note1: Additional RAID/HBA card required to support the 24 x 2.5" SATA/SAS drive bays

Note2: Additional RAID/HBA card required to support the 4x SATA/SAS drive bays

# 4U10G-TURIN2

# 4U10G-TURIN2/RF+



## Application

- AI Real-time Inference
- Big Data Analytics
- Machine Learning

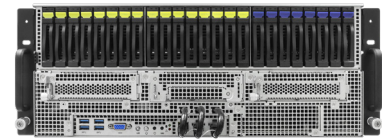
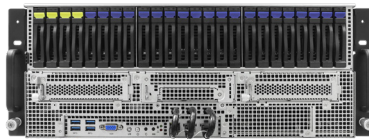
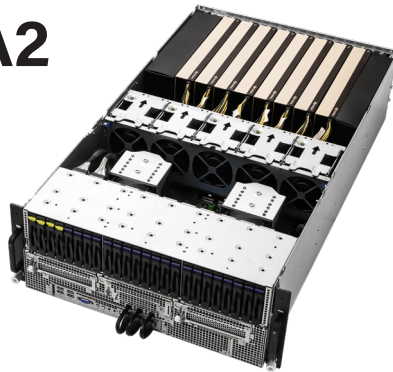


|                        |                   | 4U10G-TURIN2   | 4U10G-TURIN2/RF+   |
|------------------------|-------------------|--|--|
| CPU                    | Socket            | Dual Socket SP5 (LGA 6096)<br>AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors   |  |
|                        | TDP               | Up to 500W   |  |
| DIMM                   | Slot              | 12+12 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s                            |  |
| System Physical Status | Form Factor       | 4U Rackmount   |  |
|                        | Chassis Dimension | 786 x 438 x 176.5 mm (30.9" x 17.2" x 6.9")  | 867 x 438 x 176.5 mm (34.1" x 17.2" x 6.9")                |
| Front Panel            | Buttons           | Power button w/ LED, Reset button, NMI button, UID button  |  |
|                        | LEDs              | System fault LED, HDD activity LED   |  |
| Rear IO                | I/O               | 2 RJ45 (1GbE) by Intel® i350, shares with Rear IO<br>4 Type-A (USB3.2 Gen1)<br>1 dedicated IPMI, shares with Rear IO<br>1 DB15 (VGA)                     |  |
|                        | RJ45              | 2 RJ45 (1GbE) by Intel® i350, shares with Front Panel<br>1 dedicated IPMI, shares with Front Panel   |  |
| Expansion Slots        | Others            | 2 Type-A (USB3.2 Gen1), UID button, 1 DB15 (VGA)   |  |
|                        | Front             | 2 FHHL PCIe5.0 x16<br>1 OCP NIC 3.0 (PCIe5.0 x16)  |  |
| Drive Bay / Storage    | Rear              | 10 FHFL dual-slot PCIe5.0 x16 (with PEX89104 PCIe Switch)<br>1 FHFL single-slot PCIe5.0 x16 (CPU direct link)  |  |
|                        | External          | 16 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays or 24 Hot-swap 2.5" SATA/SAS <sup>Note1</sup> drive bays   |  |
| Power Supply           | Internal          | 1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU0]<br>1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU1] |  |
|                        | Module            | 3+1, 80-PLUS Titanium, 3200W CRPS  |  |
| System Cooling         | Fan               | 5 middle hot-swap 80x80 mm fans (20400/18000 RPM)  | 5 middle + 5 rear hot-swap 80x80 mm fans (20400/18000 RPM) |
| Management             | BMC               | ASPEED AST2600   |  |
| Security               |                   | TPM (13-pin, SPI)  |  |

Note1: Additional RAID/HBA card required to support the 24 x 2.5" SATA/SAS drive bays

# 4U8G-GENOA2

# 4U10G-GENOA2



## Application

- Deep Learning
- Big Data Analytics
- HPC
- Machine Learning



|                        |                   | 4U8G-GENOA2  | 4U10G-GENOA2  |
|------------------------|-------------------|--|---|
| CPU                    | Socket            | 1+1 Socket SP5 (LGA 6096)<br>AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors  |   |
|                        | TDP               | Up to 400W   |   |
| DIMM                   | Slot              | 12+12 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 5200MT/s<br>RDIMM-3DS up to 256GB each, max. 5200MT/s                            |   |
| System Physical Status | Form Factor       | 4U Rackmount   |   |
|                        | Chassis Dimension | 786 x 438 x 176.5 mm (30.9" x 17.24" x 6.95")  |   |
| Front Panel            | Buttons           | Power button w/ LED, Reset button, NMI button, UID button  |   |
|                        | LEDs              | System fault LED, HDD activity LED   |   |
|                        | I/O               | 2 RJ45 (1GbE) by Intel® i350, shares with Rear IO<br>4 Type-A (USB3.2 Gen1)<br>1 DB15 (VGA)  |   |
| Rear IO                | RJ45              | 2 RJ45 (1GbE) by Intel® i350, shares with Front Panel<br>1 dedicated IPMI, shares with Front Panel   |   |
|                        | Others            | 2 Type-A (USB3.2 Gen1), UID button, 1 DB15 (VGA)   |   |
| Expansion Slots        | Front             | 1 FHHL PCIe5.0 x8<br>1 OCP3.0 PCIe5.0 x8   | 2 FHHL PCIe5.0 x16<br>1 OCP NIC 3.0 PCIe5.0 x16   |
|                        | Rear              | 8 FHFL dual-slot PCIe5.0 x16<br>10 FHFL dual-slot PCIe5.0 x16 ; 1 FHFL single-slot PCIe5.0 x16   |   |
| Drive Bay / Storage    | External          | 4 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays or<br>24 Hot-swap 2.5" SATA/SAS <sup>Note1</sup> drive bays   | 16 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays or<br>24 Hot-swap 2.5" SATA/SAS <sup>Note1</sup> drive bays |
|                        | Internal          | 1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU0]<br>1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU1] |   |
| Power Supply           | Module            | 1+1 ,80-PLUS Platinum, 1600W RPSU  | 3+1, 80-PLUS Platinum/Titanium, 2000W CRPS  |
| System Cooling         | Fan               | 5 Middle Hot-swap 80x80 mm fans  |   |
| Management             | BMC               | ASPEED AST2600   |   |
| Security               |                   | TPM (13-pin, SPI) by optional accessory  |   |

Note1: Additional RAID/HBA card required to support the 24 x 2.5" SATA/SAS drive bays

# 4U4G-TURIN/HPR



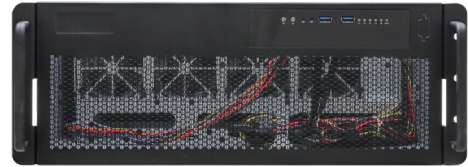
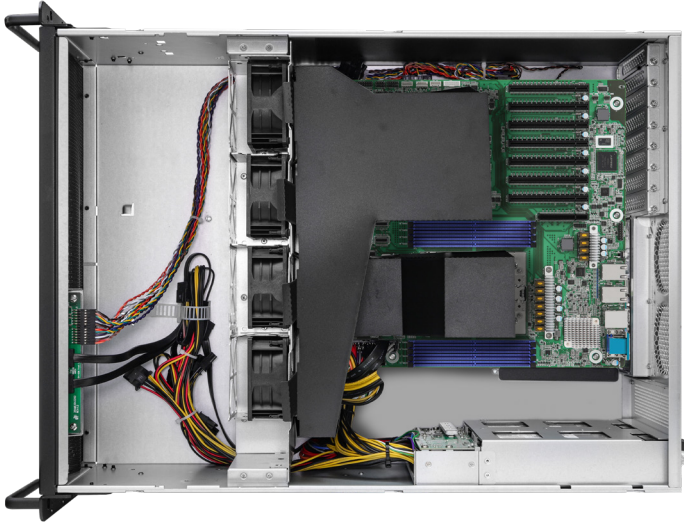
## Application

- AI Inference
- Machine Learning
- Rendering



|                        |                   | 4U4G-TURIN/HPR  |
|------------------------|-------------------|---|
| CPU                    | Socket            | Single Socket SP5 (LGA 6096P)<br>AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors         |
|                        | TDP               | Up to 400W  |
| DIMM                   | Slot              | 8 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s |
| System Physical Status | Form Factor       | 4U Rackmount  |
|                        | Chassis Dimension | 710 x 430.4 x 174.8 mm (27.9" x 16.9" x 6.9" with GPU fans; 596mm or 23.5" in depth w/o GPU fans)                         |
| Front Panel            | Buttons           | Power button w/ LED, ID button w/ LED, Reset button, NMI button   |
|                        | LEDs              | LAN activity LED, HDD activity LED, System event LED  |
| Rear IO                | I/O               | 2 Type-A (USB3.2 Gen1)  |
|                        | RJ45              | 2 RJ45 (10GbE) by Broadcom BCM57416<br>1 dedicated IPMI   |
| Expansion Slots        | Others            | 2 Type-A (USB3.2 Gen1), UID button, 1 DB15 (VGA), 1 DB9 (COM)   |
|                        | Rear              | 4 dual-slot or 7 single-slot FHFL PCIe5.0 x16<br>1 FHFL single-slot PCIe5.0 x8  |
| Drive Bay / Storage    | Internal          | 2 M-key (PCIe5.0 x4), supports 22110/2280 form factor (includes cage for 2 fixed 2.5" drives)                             |
| Power Supply           | Module            | 2+1, 80-PLUS Titanium, 2700W CRPS   |
| System Cooling         | Fan               | Middle: 4 PWM fixed 80x80mm fans<br>Rear: 2 PWM fixed 80x80mm GPU fans  |
| Management             | BMC               | ASPEED AST2600  |
| Security               |                   | TPM (13-pin, SPI)   |

# 4U4G-GENOAX



## Application

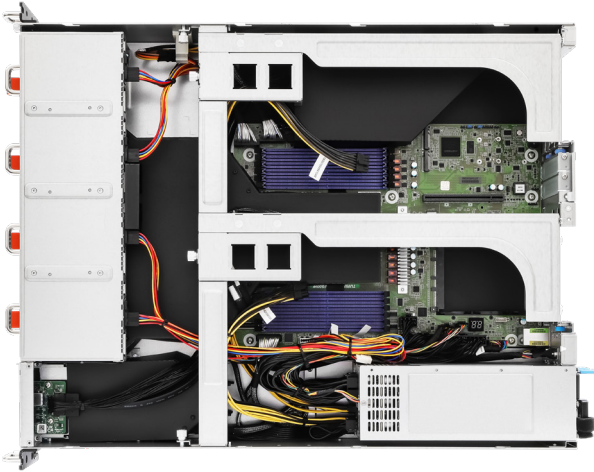
- Deep Learning
- Data Processing
- Mainstream Workstation



|                        |                   | 4U4G-GENOAX  |
|------------------------|-------------------|--|
| CPU                    | Socket            | 1 Socket SP5 (LGA 6096)<br>AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors                    |
| DIMM                   | Slot              | 8 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 5200MT/s<br>RDIMM-3DS up to 256GB each, max. 5200MT/s      |
| System Physical Status | Form Factor       | 4U Rackmount   |
|                        | Chassis Dimension | 596 x 430.4 x 174.8 mm (23.5" x 16.9" x 6.9")  |
| Front Panel            | Buttons           | Power w/ LED, ID w/ LED, System Reset, NMI   |
|                        | LEDs              | LAN Activity, HDD Activity, System Event   |
|                        | I/O               | 2 Type-A (USB3.2 Gen1)   |
| Rear IO                | RJ45              | 2 RJ45 (10GbE) by Broadcom BCM57416<br>1 dedicated IPMI  |
|                        | Others            | 2 Type-A (USB3.2 Gen1), 1 UID button w/ LED, 1 DB15 (VGA), 1 DB9 (COM)   |
| Expansion Slots        | Rear              | 4 FHFL dual-slot PCIe5.0 x16 or 7 FHFL single-slot PCIe5.0 x16<br>1 FHFL PCIe5.0 x8  |
| Drive Bay / Storage    | Internal          | 1 M-key (PCIe5.0 x4 or 4 SATA 6Gb/s), supports 22110/2280 form factor<br>1 M-key (PCIe5.0 x4), supports 22110/2280 form factor |
| Power Supply           | Module            | 1+1, 80-PLUS Platinum, 2100W CRPS  |
| System Cooling         | Fan               | 2 PWM fixed 80x56 mm fans<br>2 PWM fixed 80x38 mm fans   |
| Management             | BMC               | ASPEED AST2600   |
| Security               |                   | TPM (13-pin, SPI) by optional accessory  |

# 2U2G-TURIN/HPR

## 2U2G-TURIN



### Application

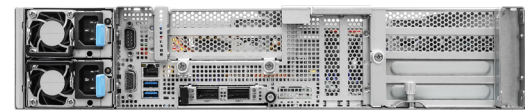
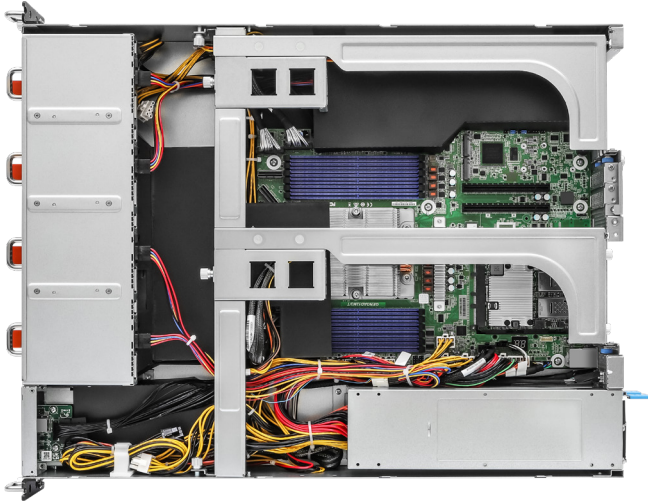
- AI Inference
- Edge AI
- Data Analytics



|                        |                   | 2U2G-TURIN/HPR   | 2U2G-GNR/HPR                      |
|------------------------|-------------------|--|-----------------------------------|
| CPU                    | Socket            | Single Socket SP5 (LGA 6096P)<br>AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors          |                                   |
|                        | TDP               | Up to 500W   |                                   |
| DIMM                   | Slot              | 12 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s |                                   |
| System Physical Status | Form Factor       | 2U Rackmount   |                                   |
|                        | Chassis Dimension | 580 x 438 x 87 mm (22.8" x 17.2" x 3.4")   |                                   |
| Front Panel            | Buttons           | Power button w/ LED, UID button w/ LED, System reset   |                                   |
|                        | LEDs              | HDD activity LED, System event LED   |                                   |
| Rear IO                | I/O               | 2 Type-A (USB3.2 Gen1)   |                                   |
|                        | RJ45              | 1 dedicated IPMI   |                                   |
| Expansion Slots        | Others            | 1 DB15 (VGA), 1 DB9 (COM), 2 Type-A (USB3.2 Gen1)  |                                   |
|                        | Rear              | 2 FHFL dual-slot PCIe5.0 x16 <sup>Note1</sup><br>1 HHHL PCIe5.0 x16  |                                   |
| Drive Bay / Storage    | External          | 2 hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays<br>2-port NVMe passive backplane  |                                   |
|                        | Internal          | 2 M-key (PCIe5.0 x4 or 4 SATA 6Gb/s), supports 22110/2280/2260 form factor   |                                   |
| Power Supply           | Module            | 1+1, 80-PLUS Titanium, 2700W CRPS  | 1+1, 80-PLUS Titanium, 2000W CRPS |
| System Cooling         | Fan               | 4 PWM Hot-swap 80x56mm fans<br>1 PWM fixed 40x28mm fan   |                                   |
| Management             | BMC               | ASPEED AST2600   |                                   |
| Security               |                   | TPM (13-pin, SPI)  |                                   |

Note1: Supports GPU cards of up to 600W (conditions apply).

# 2U2G-GENOA



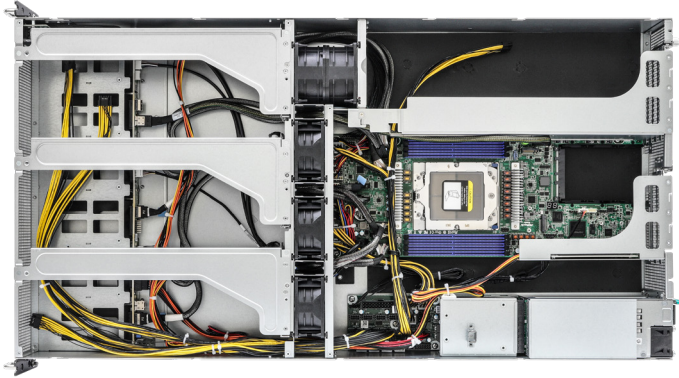
## Application

- AI Inference
- Virtualization
- Visual Computing



|                        |                                  | 2U2G-GENOA  |
|------------------------|----------------------------------|---|
| CPU                    | Socket                           | 1 Socket SP5 (LGA 6096)<br>AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors                   |
| DIMM                   | Slot                             | 12 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 5200MT/s<br>RDIMM-3DS up to 256GB each, max. 5200MT/s    |
| System Physical Status | Form Factor<br>Chassis Dimension | 2U Rackmount<br>580 x 438 x 87 mm (22.8" x 17.2" x 3.4")  |
| Front Panel            | Buttons<br>LEDs<br>I/O           | Power button w/ LED, ID button w/ LED, System reset<br>HDD Activity, LAN 1/2, System Event<br>2 Type-A (USB3.2 Gen1)          |
| Rear IO                | RJ45<br>Others                   | 1 dedicated IPMI<br>2 Type-A (USB3.2 Gen1), 1 UID button, 1 DB15 (VGA), 1 DB9 (COM)   |
| Expansion Slots        | Rear                             | 2 FHFL dual-slot PCIe5.0 x16<br>2 HHHL single-slot PCIe5.0 x16<br>1 OCP NIC 3.0 (PCIe5.0 x16)<br>2 Hot-swap 2.5" NVMe (PCIe4) |
| Drive Bay / Storage    | External<br>Internal             | 2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays<br>2 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280/2260 form factor      |
| Power Supply           | Module                           | 1+1, 80-PLUS Titanium, 2000W CRPS   |
| System Cooling         | Fan                              | Front: 4 PWM Hot-swap 80x56 mm fans,<br>Middle: 1 PWM fixed 40x28 mm fan  |
| Management             | BMC                              | ASPEED AST2600  |
| Security               |                                  | TPM (13-pin, SPI) by optional accessory   |

# 2U4G-GENOA/M3



## Application

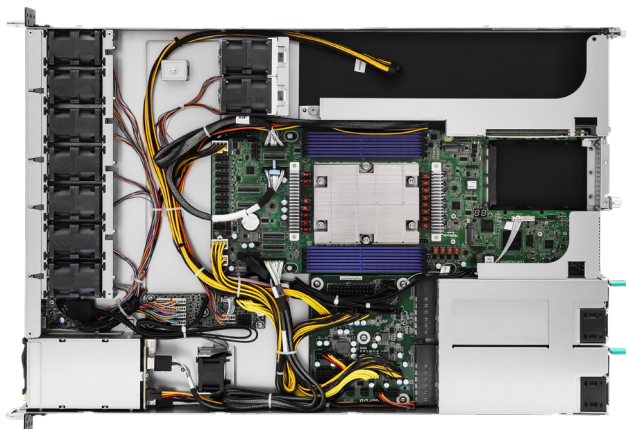
- Artificial Intelligence
- Machine Learning
- HPC
- Virtualization



|                        |                   | 2U4G-GENOA/M3   |
|------------------------|-------------------|---|
| CPU                    | Socket            | 1 Socket SP5 (LGA 6096)<br>AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors                    |
|                        | TDP               | Up to 360W  |
| DIMM                   | Slot              | 8 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 5200MT/s<br>RDIMM-3DS up to 256GB each, max. 5200MT/s |
| System Physical Status | Form Factor       | 2U Rackmount  |
|                        | Chassis Dimension | 850 x 438 x 87.5 mm (33.5" x 17.2" x 3.5")  |
| Front Panel            | Buttons           | Power, UID  |
|                        | LEDs              | System fault, UID, Power LEDs   |
|                        | I/O               | 2 Type-A (USB2.0)   |
| Rear IO                | RJ45              | 1 dedicated IPMI  |
|                        | USB               | 2 Type-A (USB3.2 Gen1)  |
|                        | Others            | 1 mini-DisplayPort (VGA), 1 UID button w/ LED   |
| Expansion Slots        | Front             | 3 FH dual-slot PCIe5.0 x16  |
|                        | Rear              | 1 FH dual-slot PCIe5.0 x16  |
|                        |                   | 1 OCP NIC 3.0 PCIe5.0 x16   |
|                        |                   | 1 FHHL PCIe5.0 x16<br>1 FHFL PCIe5.0 x8   |
| Drive Bay / Storage    | External          | 4 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays<br>2 Hot-swap 2.5" SATA drive bays   |
|                        | Internal          | 2 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor   |
| Power Supply           | Module            | 1+1, 80-PLUS Platinum, 2700W CRPS   |
| System Cooling         | Fan               | 1 PWM hot-swap 80x80 mm fans<br>3 PWM hot-swap 80x38 mm fans  |
| Management             | BMC               | ASPEED AST2600  |
| Security               |                   | TPM (13-pin, SPI) by optional accessory   |

# 1U1G2E-TURIN

# 1U1G4E1S-TURIN



1U1G2E-TURIN



1U1G4E1S-TURIN



## Application

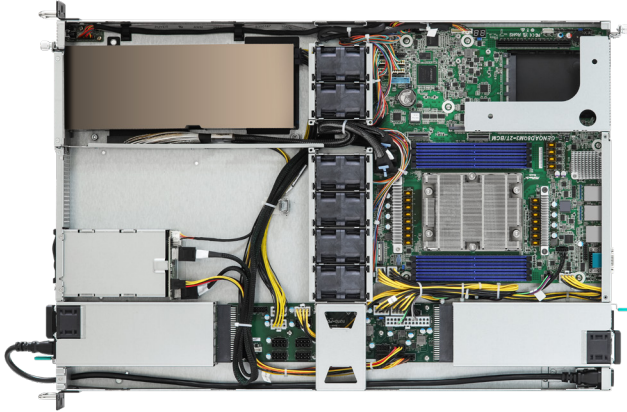
- Edge AI
- Data Visualization



|                        |                   | 1U1G2E-TURIN  | 1U1G4E1S-TURIN                          |
|------------------------|-------------------|---|---|
| CPU                    | Socket            | Single Socket SP5 (LGA 6096)<br>AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors          |   |
|                        | TDP               | Up to 400W  |   |
| DIMM                   | Slot              | 8 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 6400MT/s<br>RDIMM-3DS up to 256GB each, max. 6400MT/s |   |
| System Physical Status | Form Factor       | 1U Rackmount  |   |
|                        | Chassis Dimension | 650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")  |   |
| Front Panel            | Buttons           | Power button w/ LED, Reset button   |   |
|                        | LEDs              | System fault LED, UID LED, HDD activity LED   |   |
| Rear IO                | I/O               | 2 Type-A (USB3.2 Gen1)  |   |
|                        | RJ45              | 1 dedicated IPMI  |   |
|                        | Others            | 1 Mini DisplayPort (VGA), 1 UID button w/ LED,<br>2 Type-A (USB3.2 Gen1)  |   |
| Expansion Slots        | Rear              | 1 FHFL dual-slot PCIe5.0 x16 <sup>Note1</sup>   |   |
|                        |                   | 1 HHHL single-slot PCIe5.0 x16  |   |
|                        |                   | 1 OCP NIC 3.0 (PCIe5.0 x16)   |   |
| Drive Bay / Storage    | External          | 2 hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays  | 4 Hot-swap E1.S (PCIe5.0 x4) drive bays |
|                        | Internal          | 2 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor   |   |
| Power Supply           | Module            | 1+1, 80-PLUS Titanium, 2000W CRPS   |   |
| System Cooling         | Fan               | 9 dual-rotor 40x56mm fans   |   |
|                        |                   | 1 single-rotor 40x28mm fan  |   |
| Management             | BMC               | ASPEED AST2600  |   |
| Security               |                   | TPM (13-pin, SPI)   |   |

Note1: Supports GPU cards of up to 600W (conditions apply).

# 1U1G-GENOA/M3



## Application

- Rendering
- Virtualization
- Visualization
- Deep Learning



|                        |                   | 1U1G-GENOA/M3  |
|------------------------|-------------------|--|
| CPU                    | Socket            | 1 Socket SP5 (LGA 6096)<br>AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors                               |
| DIMM                   | Slot              | 8 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 128GB each, max. 5200MT/s<br>RDIMM-3DS up to 256GB each, max. 5200MT/s            |
| System Physical Status | Form Factor       | 1U Rackmount   |
|                        | Chassis Dimension | 653.5 x 438.0 x 43.5 mm (25.73" x 17.24" x 1.71")  |
| Front Panel            | Buttons           | Power button w/ LED, UID button w/ LED, System Reset   |
|                        | LEDs              | System Fault, LAN1/LAN2 Activity   |
| Rear IO                | I/O               | 2 Type-A (USB3.2 Gen1)   |
|                        | RJ45              | 2 RJ45 (10GbE) by Intel® Broadcom BCM57416<br>1 dedicated IPMI   |
|                        | Others            | 1 DB15 (VGA), 1 DB9 (COM)  |
| Expansion Slots        | Front             | 1 FHFL dual-slot PCIe5.0 x16   |
|                        | Rear              | 1 FHHL PCIe5.0 x16 via RB1UX16R_G5<br>1 OCP NIC 3.0 (PCIe5.0 x16)  |
| Drive Bay / Storage    | External          | 2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays   |
|                        | Internal          | 1 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor<br>1 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 2280 form factor |
| Power Supply           | Module            | 1+1, 1600W CRPS  |
| System Cooling         | Fan               | 6 PWM dual-rotor 40x56 mm fans   |
| Management             | BMC               | ASPEED AST2600   |
| Security               |                   | TPM (13-pin, SPI) by optional accessory  |

# 2U1G-B650

## 2U1G-B650/EVAC · 2U1G-B650/AQUA



### Application

- Rendering
- Virtualization
- Visualization
- Deep Learning



|                               |                   | 2U1G-B650  | 2U1G-B650/EVAC                                    | 2U1G-B650/AQUA   |
|-------------------------------|-------------------|--|---|--|
| <b>CPU</b>                    | Socket            | 1 Socket AM5 (LGA1718); Supports AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Processors                     |   |  |
|                               | TDP               | 120W   | 170W  |  |
| <b>DIMM</b>                   | Slot              | 4 DDR5 288-pin (2DPC)  |   |  |
| <b>System Physical Status</b> | Form Factor       | 2U Rackmount   |   |  |
|                               | Chassis Dimension | 477.7 x 430.4 x 88 mm (18.8" x 16.9" x 3.5")   |   |  |
| <b>Front Panel</b>            | Buttons           | Power button w/ LED, System Reset button   |   |  |
|                               | LEDs              | System Fail LED, LAN1/LAN2 Activity, Power Status LED  |   |  |
|                               | I/O               | 2 Type-A (USB3.2 Gen1)   |   |  |
| <b>Rear IO</b>                | RJ45              | 2 RJ45 (1GbE) by Intel® i210<br>1 dedicated IPMI   |   |  |
|                               | USB               | 4 Type-A (USB3.2 Gen1)   |   |  |
|                               | Others            | 1 UID w/ LED, 1 DB15 (VGA), 1 DB9 (COM), 1 DisplayPort, 1 HDMI   |   |  |
| <b>Expansion Slots</b>        | Rear              | 1 FHFL triple-slot PCIe5.0 x16<br>1 FHHL PCIe4.0 x4  | 1 FHFL dual-slot PCIe5.0 x16<br>1 FHHL PCIe4.0 x4 | 1 FHFL triple-slot PCIe5.0 x16<br>1 FHHL PCIe4.0 x4                      |
|                               |                   | 2 optional fixed 2.5" drive bay  | 1 optional fixed 2.5" drive bay                   | 2 optional fixed 2.5" drive bay  |
| <b>Drive Bay / Storage</b>    | Internal          | 1 M-key (PCIe5.0 x4), supports 2280/2242 form factor [CPU]<br>1 M-key (PCIe4.0 x4), supports 2280/2242 form factor [FCH] |   |  |
|                               |                   | 1+1, 80-PLUS Platinum, 1200W CRPS  |   |  |
| <b>Power Supply</b>           | Module            |  |   |  |
| <b>System Cooling</b>         | Fan               | 4 PWM easy-swap 80x38 mm fans  |   | Dynatron L35 (w/ 3 fixed 80x38 mm fans),<br>1 PWM easy-swap 80x38 mm fan |
| <b>Management</b>             | BMC               | ASPEED AST2600   |   |  |
| <b>Security</b>               |                   | TPM (13-pin, SPI) by optional accessory  |   |  |

# 1U2N2G-AM5/2T



## Application

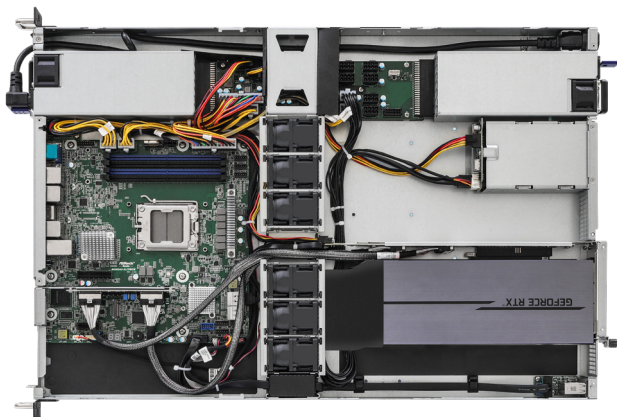
- Visual Computing
- Data Processing



|                            |                   | 1U2N2G-AM5/2T   |
|----------------------------|-------------------|---|
| CPU (per node)             | Socket            | AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Processors                                   |
| DIMM (per node)            | Slot              | 4 DDR5 288-pin (2DPC)   |
| System Physical Status     | Form Factor       | 1U Rackmount  |
|                            | Chassis Dimension | 650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")  |
| Front Panel (per node)     | Buttons           | UID w/LED, Power w/LED  |
|                            | LEDs              | System Fail   |
|                            | I/O               | 2 RJ45 (10GbE) by Broadcom BCM57416, 1 dedicated IPMI<br>2 Type-A (USB3.2 Gen1), 1 DB15 (VGA), 1 HDMI |
| Expansion Slots (per node) | Rear              | 1 FH dual-slot PCIe5.0 x16 or 2 FH single-slot PCIe5.0 x8   |
| Storage (per node)         | Internal          | 1 M-key (PCIe4.0 x4), supports 2280 form factor   |
| Power Supply               | Module            | 1+1, 80-PLUS Platinum, 1600W CRPS   |
| System Cooling             | Fan               | 8 PWM Hot-swap 40x56 mm fans  |
| Management (per node)      | BMC               | ASPEED BMC AST2500  |
| Security (per node)        |                   | TPM (13-pin, SPI) by optional accessory   |

# 1U1G-B650/2L2T

## 1U1G-B650



### Application

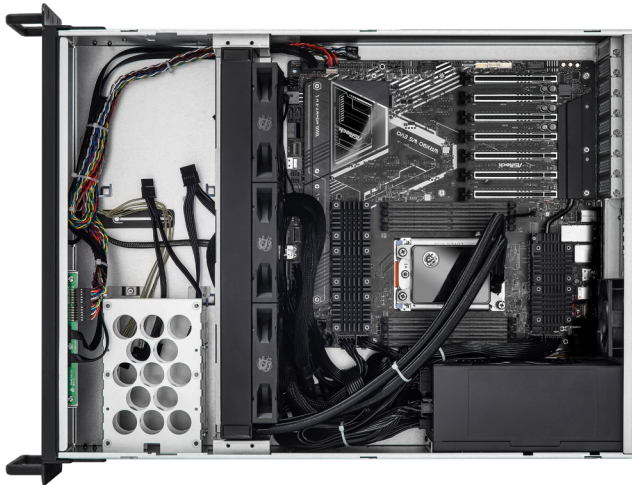
- Rendering
- Virtualization
- Visualization
- Deep Learning



|                        |                   | 1U1G-B650/2L2T  | 1U1G-B650  |
|------------------------|-------------------|---|--|
| CPU                    | Socket            | 1 Socket AM5 (LGA1718); Supports AMD Ryzen™ 7000 series processors  |  |
| DIMM                   | Slot              | 4 DDR5 288-pin (2DPC)   |  |
| System Physical Status | Form Factor       | 1U Rackmount  |  |
|                        | Chassis Dimension | 660.4 x 438.0 x 43.5 mm (26.00" x 17.24" x 1.71")   |  |
| Front Panel            | Buttons           | Power button w/ LED, UID button w/ LED, System Reset  |  |
|                        | LEDs              | System Fault, LAN1/LAN2 Activity  |  |
|                        | I/O               | 2 RJ45 (10GbE) by Broadcom BCM57416<br>2 RJ45 (1GbE) by Intel® i210<br>1 dedicated IPMI<br>4 USB Type-A (USB3.2 Gen1)<br>1 DB15 (VGA), 1 DisplayPort, 1 HDMI<br>1 DB9 (COM) | 2 RJ45 (1GbE) by Intel® i210<br>1 dedicated IPMI<br>4 USB Type-A (USB3.2 Gen1)<br>1 DB15 (VGA), 1 DisplayPort, 1 HDMI<br>1 DB9 (COM) |
| Rear I/O               | USB               | 2 Type-A (USB3.2 Gen1)  |  |
| Expansion Slots        | Front             | 1 FHHL PCIe4.0 x4 <sup>Note1</sup>  |  |
|                        | Rear              | 1 FHFL dual-slot PCIe5.0 x16  |  |
| Drive Bay / Storage    | External          | 2 Hot-swap 2.5" SATA drive bays   |  |
|                        | Internal          | 1 M-key (PCIe5.0 x4), supports 2280/2242 form factor [CPU]  | 1 M-key (PCIe5.0 x4), supports 2280/2242 form factor [CPU]<br>1 M-key (PCIe4.0 x4), supports 2280/2242 form factor [FCH]             |
| Power Supply           | Module            | 1+1, 80-PLUS Platinum, 1300W CRPS   |  |
| System Cooling         | Fan               | 6 PWM dual-rotor 40x56 mm fans  |  |
| Management             | BMC               | ASPEED AST2600  |  |
| Security               |                   | TPM (13-pin, SPI) by optional accessory   |  |

Note1: 1 FHHL PCIe4.0 x4 support requires additional PCIe4.0 x4 to x16 riser cable please contact ASRock Rack

# 4U4G-TR5/2T AQUA



## Application

- Visual Computing
- Data Processing
- Mainstream Workstation



|                        |                   | 4U4G-TR5/2T AQUA   |
|------------------------|-------------------|--|
| CPU                    | Socket            | 1 Single Socket sTR5 (LGA 4844)<br>Supports AMD Ryzen™ Threadripper™ PRO 9000/7000WX series processors   |
|                        | TDP               | Up to 350W   |
| DIMM                   | Slot              | 8 DDR5 DIMM Slots (1DPC); supports:<br>RDIMM up to 96GB each, max. 5200MT/s<br>RDIMM-3DS up to 256GB each, max. 5200MT/s   |
| System Physical Status | Form Factor       | 4U Rackmount   |
|                        | Chassis Dimension | 596 x 430.4 x 174.8 mm (23.5" x 16.9" x 6.9")  |
| Front Panel            | Buttons           | Power button w/ LED, ID button w/ LED, Reset button, NMI button  |
|                        | LEDs              | LAN activity LEDs, HDD activity LED, System event LED  |
| Rear IO                | I/O               | 2 Type-A (USB3.2 Gen1)   |
|                        | RJ45              | 2 RJ45 (10GbE) by Intel® X710-AT2<br>1 dedicated IPMI  |
| Expansion Slots        | Others            | 2 Type-C (USB3.2 Gen2), 4 Type-A (USB3.2 Gen2), 2 Type-A (USB3.2 Gen1), 1 UID button w/ LED, 1 DisplayPort 1.1a (VGA),<br>1 Microphone input jack, 1 Line out jack, 1 Optical SPDIF out port |
|                        | Rear              | 4 dual-slot FHFL PCIe5.0 x16<br>or 6 single-slot FHFL PCIe5.0 x16 and 1 single-slot FHFL PCIe5.0 x8  |
| Drive Bay / Storage    | Internal          | 4 fixed 3.5"/2.5" NVMe (PCIe4.0 x4)/SATA drive bays<br>1 M-key (PCIe5.0 x4), supports 22110/2280/2260 form factor<br>1 M-key (PCIe4.0 x4), supports 2280/2260 form factor                    |
|                        | Power Supply      | 1, 80-PLUS Platinum, 2000W ATX PSU   |
| System Cooling         | Fan               | Radiator: 3 PWM fixed 120x25 mm fans<br>Cover: 1 PWM fixed 140x25 mm GPU fan<br>Rear: 1 PWM fixed 80x25 mm fans  |
| Management             | BMC               | ASPEED AST2600   |
| Security               |                   | TPM (13-pin, SPI)  |

# 4U2G-ALTRA/2T



## Application

- Visual Computing
- Data Processing
- Mainstream Workstation



|                        |                   | 4U2G-ALTRA/2T   |
|------------------------|-------------------|---|
| CPU                    | Socket            | 1 Socket (LGA 4926); Supports Ampere Altra Max/Ampere Altra processors  |
| DIMM                   | Slot              | 8 DDR4 DIMM slots (1DPC); supports: RDIMM, LRDIMM up to 256GB each, max. 3200MT/s   |
| System Physical Status | Form Factor       | 4U Rackmount  |
|                        | Chassis Dimension | 596 x 430.4 x 174.8 mm (23.5" x 16.9" x 6.9")   |
| Front Panel            | Buttons           | Power button w/ LED, UID button w/ LED  |
|                        | LEDs              | LAN Activity, HDD Activity, System Event  |
|                        | I/O               | 2 Type-A (USB3.2 Gen1)  |
| Rear IO                | RJ45              | 2 RJ45 (10GbE) by Intel® X550<br>1 RJ45 (1GbE) by Intel® i210<br>1 dedicated IPMI   |
|                        | USB               | 4 Type-A (USB3.2 Gen1)  |
|                        | Other             | 1 DB15 (VGA), 1 UID button w/ LED   |
| Expansion Slots        | Rear              | SLOT7: PCIe4.0 x16 <sup>Note1</sup><br>SLOT6: PCIe4.0 x16 <sup>Note1</sup><br>SLOT5: PCIe4.0 x16<br>SLOT4: PCIe4.0 x16<br>1 FHFL single-slot PCIe4.0 x8 |
| Drive Bay / Storage    | Internal          | 4 fixed NVMe (PCIe4.0 x4) drive bays<br>2 M-key (PCIe4.0 x4); support 2280/2230 form factor   |
| Power Supply           | Module            | 1, 80-PLUS Gold, 2000W ATX PSU  |
| System Cooling         | Fan               | 4 PWM Easy-swap 80x38 mm fans   |
| Management             | BMC               | ASPEED AST2500  |
| Security               |                   | TPM (13-pin, SPI) by optional accessory   |

Note1: Supports PCIe4.0 x8 when using Ampere Altra processors

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