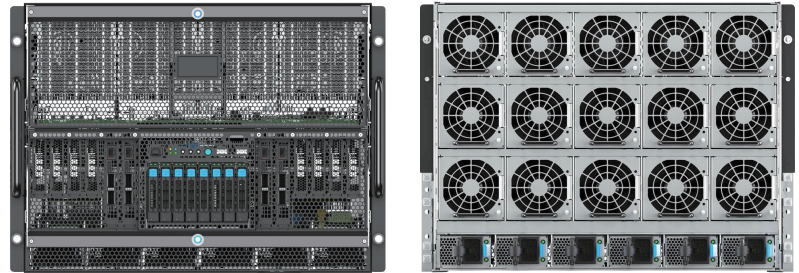


# AI Server

## AGS8600

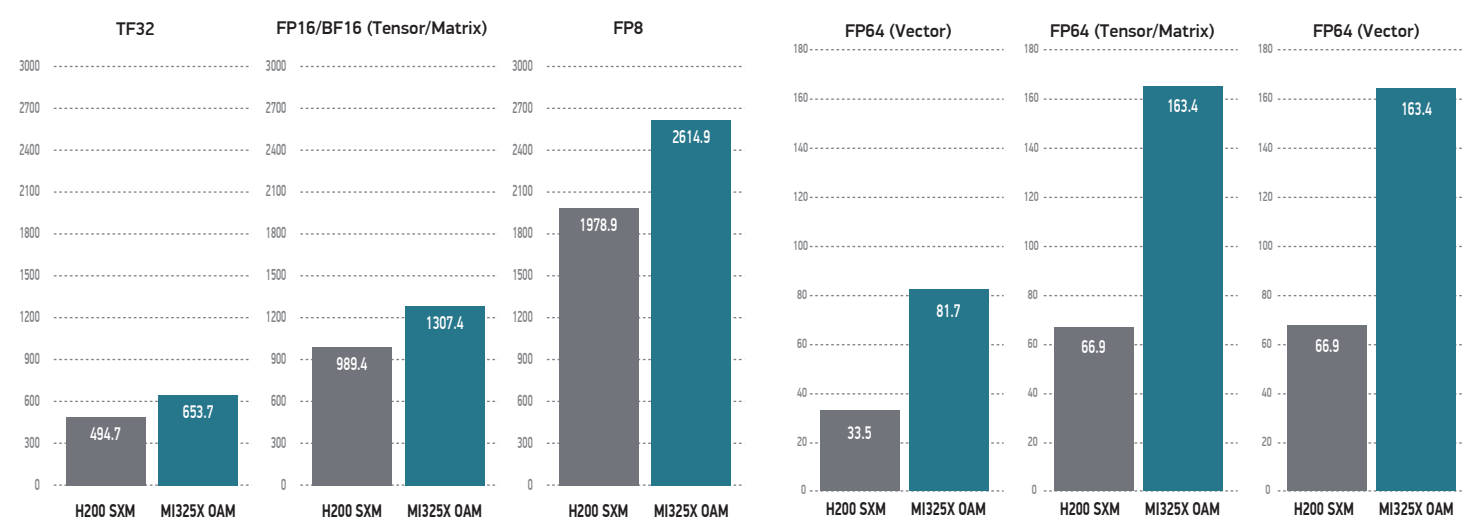


The Edgecore AGS8600 is a high-performance, scalable, GPU-based server suitable for AI/ML (Artificial Intelligence/Machine Learning) and HPC (High-Performance Computing) applications. The server is ideal for training large language models, automation, object classification, and recognition use cases. The system is designed with eight AMD Instinct MI325X processors and dual AMD EPYC 9005/Turin series processors. The AMD MI325X processor integrates 256 GB of HBM3 memory.

Each MI325X offers a 16-lane PCIe Gen5 host interface and seven AMD Infinity Fabric™ links for full connectivity between eight GPUs in a ring. AMD Infinity Fabric technology delivers excellent I/O efficiency, scaling, and communication within and between industry-standard accelerator module (OAM) device packages.

### Key Features and Benefits

- Featuring eight AMD Instinct™ MI325X GPUs based on CDNA™ 3 architecture
- Dual 5<sup>th</sup> Gen AMD EYPC processors with advanced data center performance and efficiency
- 7 Infinity Fabric™ links with 128 GB/s for full connectivity between 8 GPUs in a ring (scale-up)
- 16 PCIe Gen5 with 128GB/s bandwidth for scale-out network
- Up to 1.3X AI performance and up to 2.4X HPC performance vs. competitive accelerators
- AMD ROCm™ software optimized for generative AI and HPC applications, easy for migrating existing code.

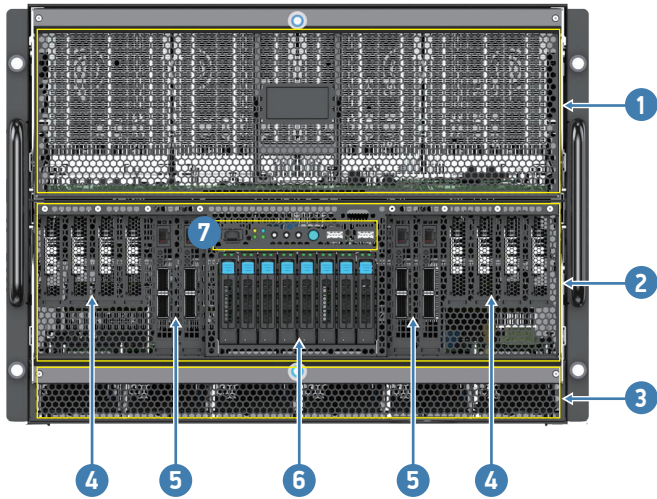


AI Performance (Peak TFLOPs)

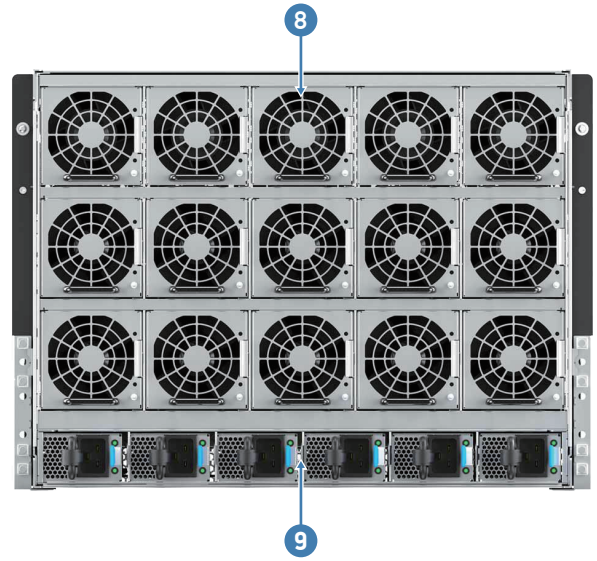
HPC Performance (Peak TFLOPs)

Interfaces

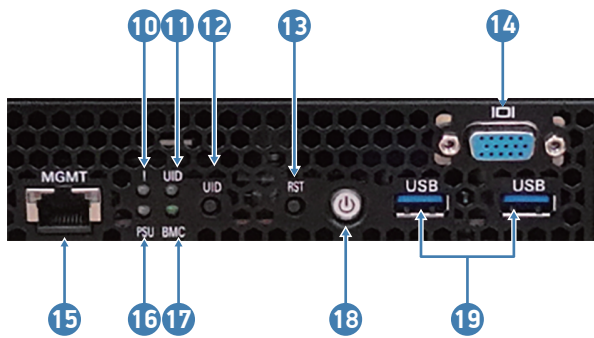
Front View



Rear View



Front Panel



Description

- |  |                                     |
|--|-------------------------------------|
| 1. 4U UBB+OAM module   | 11. 1 x Unit ID                     |
| 2. 3U Head Node module   | 12. UID button                      |
| 3. 1U power supplies   | 13. RST reset button                |
| 4. 8 x backend NICs PCIe 5.0 x16                                     | 14. 1 x VGA D-Sub 15-pin port       |
| 5. 4 x Front End NICs PCIe 5.0 x16                                   | 15. 1 x RJ-45 management port       |
| 6. 8 x NVMe U.2 drive bays   | 16. Power supply unit               |
| 7. Front panel module  | 17. Baseboard Management Controller |
| 8. 15 x hot-swappable 8086 fan modules                               | 18. Power button                    |
| 9. 6 x 3300 W PSU w/(4+2) redundancy                                 | 19. 2 x USB 3.0 ports               |
| 10. Indicator (over temperature warning indicator, fan and PSU fail) |                                     |

## Form Factor

- 8 U

## Compute Node

- CPU: AMD EPYC™ 9005/Turin series processor, 2 sockets  
EPYC 9575F 64C 3.3GHz 400W SP5
- Memory: 24 x 64GB RDIMM 2 RANK 5600
- Operating System: Linux
- BIOS: AMI BIOS (32 MB SPI Flash ROM)
- Front End Interface: 2 x BCM957608-P2200GQF00 Dual-Port 200GbE QSFP112 PCIe Ethernet NIC
- Storage: 2 x 1.92TB U.2 2.5 NVME4 1DWPD (non SED)

## GPU

- AMD MI325X 8 GPUs with Infinity Fabric

## Input/Output

- USB: 2 x USB3.0 ports
- VGA: 1 x D-Sub 15-pin port
- RJ-45: 1 x GbE port dedicated for IPMI
- Buttons: UID button, power button, reset button
- LEDs:
  - UID led
  - PWR led
  - Baseboard management controller
  - Indicator (over temperature warning indicator/fan and PSU fail)

## Scale-Out Interface

- RDMA (ROCE v2)
- 8 x LP slots for switch board (PCIe x16)
- 8 x BCM957608-P1400GDF00 Single-Port 400G QSFP112-DD PCIe Ethernet NIC

## Storage

- Front:
  - 6 x 7.68TB U.2 2.5 NVME4 1DWPD (non SED)

## BMC

- AST2600

## TPM 2.0

## PSU

- 3300 W hot-swap RPSU, 80+ Titanium (4+2 redundancy)

## Fans

- 15 hot-swappable fans

## Dimensions

- W x D x H: 448 x 850 x 351 mm (17.63 x 33.46 x 13.82)

## Operating Temperature

- 10°C-35°C

## Expansion Slots

- 8 half-height + 4 full-height PCIe 5.0 x16 slots

## Software

- ROCm: 6.2.4
- RCCL: 2.20.5
- PyTorch: 2.3, 2.2, 2.1, 2.0, 1.13
- TensorFlow: 2.16.1, 2.15.1, 2.14.1
- JAX: 0.4.26
- ONNX Runtime: 1.17.3

## Warranty

Please check [www.edgecore.com](http://www.edgecore.com) for the warranty terms in your country.

## For More Information

To find out more about Edgecore Networks Corporation products and solutions, visit [www.edgecore.com](http://www.edgecore.com).

## About Edgecore Networks Corporation

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