

AHG2 | ESC4000A-E12

Let Hyperscalers meet your bespoke requirements.

Start customizing your AHG2 | ESC4000A-E12 today!

- ✓ AMD EPYC™ 9004 series with AMD 3D V-Cache technology
- ✓ PCIe Gen5.0 Ready
- ✓ AI and HPC workloads ready
- ✓ Comprehensive cooling solutions
- ✓ Enhanced IT-infrastructure management

Accelerate performance for HPC and AI workloads

About Hyperscalers

 World's First Open OEM

 Free Of Proprietary Software Lock-Ins

 Free Of Proprietary Hardware Lock-Ins

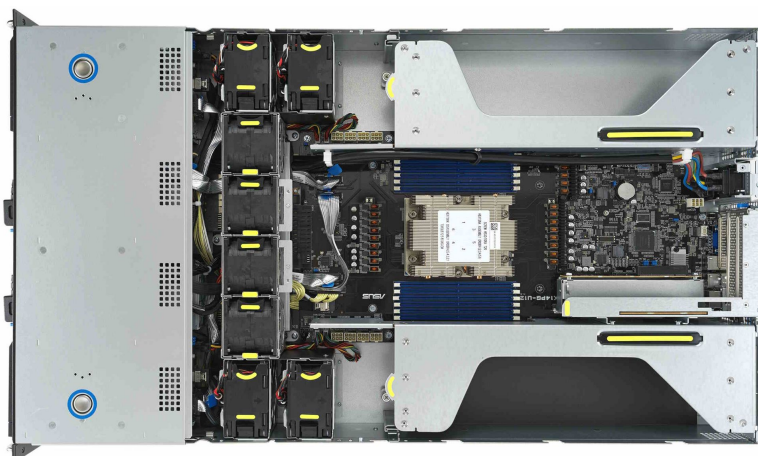
 US Stock  Full US Warranty

 100% Channel Distributor  Metro Delivery 1-4 Days



Four dual-slot GPU compute in 2U

AMD EPYC™ 9004 single-processor 2U GPU server that supports four dual-slot GPUs, liquid cooling solution, up to 12 DIMM, 8 PCIe 5.0 slots, six NVMe, OCP 3.0 and ASMB11-iKVM



- ❖ **Powerful performance:** Powered by AMD EPYC 9004 processors with 128 Zen 4c cores, 12-channel, up to 4800 MHz DDR5 and support for a maximum TDP of up to 400 watts per socket
- ❖ **AI and HPC workloads ready:** Up to four dual-slot active or passive GPUs, NVIDIA NVLink® bridge, and NVIDIA Bluefield DPU support to enable performance scaling
- ❖ **Power-efficient system design:** Independent CPU and GPU airflow tunnels for thermal optimization and support for up to two 2600W Titanium redundant power supplies for uninterrupted operation
- ❖ **Comprehensive cooling solutions:** Designed for both liquid cooling and enhanced air cooling based on CPU TDP for versatile workloads
- ❖ **Scale-up storage and expansion design:** A total of six bays in combination of Tri-Mode NVMe/SATA/SAS drives on the front panel and eight PCIe 5.0 slots for higher bandwidth and system upgrade
- ❖ **Flexible networking module design:** Optional OCP 3.0 module with PCIe 5.0 slot in rear panel for faster connectivity
- ❖ **Enhanced IT-infrastructure management:** Remote control with ASPEED AST2600, Control Center IT management software and hardware-level Root-of-Trust solution



AHG2 | ESC4000A-E12 Specifications

Processor 1 x Socket SP5 (LGA 6096)
AMD EPYC™ 9004 series (up to 400W)
4th Generation AMD EPYC Processors with AMD 3D V-Cache technology

Dimensions W x H x D (mm): 800mm x 439.5mm x 88.9mm (2U)
W x H x D (inch): 31.50" x 17.30" x 3.50"

Memory **Total Slots :** 12 (12-channel)
Capacity : Maximum up to 3TB RDIMM
Memory Type : DDR5 4800/4400 RDIMM/RDIMM 3DS
Memory Size :
64GB, 32GB, 16GB RDIMM
256GB, 128GB 3DS RDIMM
* Refer to support page for more information

Expansion Slot **Rear:**
-4 x PCIe x16 slots (Gen5 x16 link, FH, FL) for dual-slot GPU cards or
8 x PCIe x16 slots (Gen5 x8 link, FH, FL) for single-slot GPU cards

-1 x PCIe x16 slots (Gen5 x16 link, FH, HL)
-1 x PCIe x16 slot (Gen5 x16/x8 link, FH, HL) or OCP socket option or M.2 riser module
-1 x PCIe x8 slot (Gen5 x0/x8 link, LP, HL)

Front: 1 x PCIe x8 slot (Gen5 x8 link, LP, HL) Only for SKU1

Switch/LED **Front :**
1 x Power Button/LED
1 x Location Button/LED
1 x Message LED
1 x Q-Code/Port 80 LED
2 x LAN LED
Rear :
1 x Power Button/LED
1 x Location LED
1 x Message LED

Power Supply 1+1 Redundant 2600W 80 PLUS Titanium CRPS-R Power Supply

Regulatory Compliance BSMI, CE, RCM, FCC(Class A)

Drive Bays 2 x 2.5" & 4 x 3.5" Hot-swap Storage Bays
SKU1:
2 x 2.5" SATA/SAS*/NVMe +
2 x 3.5" SATA/SAS*/NVMe + 2 x 3.5" SATA/SAS*
SKU2: Build to order
2 x 2.5" SATA/SAS*/NVMe +
4 x 3.5" SATA/SAS*/NVMe (Occupy 1 x PCIe x8 link)
Optional: 1 x M.2 with riser module
*RAID card is required to support SAS hard drives
**For SKU1 additional 2 x NVMe support required a RAID card.

Storage **Storage Controller :**
CPU Integrated
Optional kits:
ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card
ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
Broadcom MegaRAID 9540-8i
Broadcom MegaRAID 9560-16i

Weight **Net Weight:** 24 Kg
Gross Weight: 34.8 Kg

Front I/O Ports 1 x Q-code/port-80 LED
4 x USB 3.2 Gen I ports

Rear I/O Ports 2 x USB 3.2 Gen I ports
2 x Gigabit LAN ports
1 x MAnagement port
1 x VGA port

Networking 2 x GbE LAN ports (Intel I350 Controller)
1 x Management Port

Operating Environment **Operation temperature:** 10°C ~ 35°C
Non operation temperature: -40°C ~ 70°C
Non operation humidity: 20% ~ 90% (Non condensing)

Management Solution ASUS ASMB11-iKVM (on-board)

Authorised
Hyperscalers
Partner



About Hyperscalers

Hyperscalers is the world's first open Original Equipment Manufacturer offering proprietary-free alternative to traditional Tier 1 OEM vendors.

Hereto to solve Information technology's complexity, Hyperscalers developed the IP Appliance Design Process. Which is basically a process along with a utility, being the Appliance Optimizer Utility, which together, assists service providers 'productize' delivery of their Digital-IP.

Technology Partners



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