

# AceleMax DGS-224AS

## 2U Dual AMD EPYC Processor 4x NVIDIA A100 SXM4 GPU Server

The AceleMax™ DGS-224AS is a high density 2U system with four NVIDIA® HGX™ A100 40GB or 80GB SXM4 GPUs, and support for high GPU Peer to Peer Communication via NVIDIA NVLINK, Direct Attached GPUs & Next Gen PCIe 4.0, dual AMD EPYC 7002 or 7003 series processors, eight NIC for GPU Direct Attach RDMA, and 4 NVMe GPU Direct storage, bringing huge parallel computing power to customers, thereby helping customers accelerate their digital transformation.



### Features

- Hardware-level root of trust support
- Supports NVIDIA HGX™ A100 with 4 x SXM4 GPU
- Supports NVIDIA® NVLink® and NVSwitch™ technology
- Up to 600GB/s GPU to GPU interconnection
- Dual AMD EPYC™ 7003 Series processors
- 8-Channel RDIMM/LRDIMM DDR4, 16 x DIMMs
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x dedicated management port
- 4 x 2.5" Gen4 U.2 NVMe/ SATA hot-swap HDD/SSD bays
- Ultra-Fast M.2 with PCIe Gen4 x4 interface
- 6 x Low profile Gen4 x16 expansion slots
- 1 x OCP 3.0 Gen4 x16 mezzanine slot
- 3000W 80 PLUS Platinum redundant power supply

### Specifications

<b>Dimensions</b>	<ul style="list-style-type: none"> <li>• 2U (W448 x H86.8 x D800 mm)</li> </ul>
<b>Motherboard</b>	<ul style="list-style-type: none"> <li>• MZ62-HD5 Rev. 3.0</li> </ul>
<b>CPU</b>	<ul style="list-style-type: none"> <li>• AMD EPYC™ 7003 Series processors</li> <li>• Dual processors, 7nm technology, cTDP up to 280W</li> <li>• Up to 64-core, 128 threads per processor</li> <li>• Compatible with AMD EPYC™7002 Series processors</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>• System on Chip</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>• 1 8-Channel DDR4 memory, 16 x DIMM slots</li> <li>• RDIMM/LRDIMM modules up to 128GB supported</li> <li>• 3DS RDIMM/LRDIMM modules up to 256GB supported</li> <li>• Memory speed: to 3200/ 2933 MHz</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>• 2 x 1GbE LAN ports (1 x Intel® I350-AM2)</li> <li>• 1 x Dedicated management</li> </ul>

## Specifications (continued)

<b>Video</b>	<ul style="list-style-type: none"><li>• Integrated in Aspeed® AST2500</li><li>• 2D Video Graphic Adapter with PCIe bus interface</li><li>• 1920x1200@60Hz 32bpp, DDR4 SDRAM</li></ul>
<b>Storage</b>	<ul style="list-style-type: none"><li>• 4 x 2.5" Gen4 U.2 NVMe/ SATA hot-swappable HDD/SSD bays</li></ul>
<b>SAS</b>	<ul style="list-style-type: none"><li>• N/A</li></ul>
<b>Expansion Slots</b>	<ul style="list-style-type: none"><li>• x SXM4 sockets for NVIDIA HGX™ A100 4-GPU 40GB/80GB</li><li>• 6 x Low-profile PCIe Gen4 x16 expansion slots</li><li>• 1 x OCP 3.0 Gen4 x16 mezzanine slot</li><li>• 1 x M.2 slot: (Onboard)<ul style="list-style-type: none"><li>- PCIe Gen4 x4, Supports NGFF-2280/22110 cards</li></ul></li><li>• 2 x M.2 slots: (From CMTPO72)<ul style="list-style-type: none"><li>- PCIe Gen4 x4, Supports NGFF-2242/2260/2280/22110 cards</li></ul></li></ul>
<b>Front I/O</b>	<ul style="list-style-type: none"><li>• 2 x USB 3.0, 1 x mini DP, 2 x RJ45, 1 x MLAN -</li></ul>
<b>Rear I/O</b>	<ul style="list-style-type: none"><li>• N/A</li></ul>
<b>Backplane I/O</b>	<ul style="list-style-type: none"><li>• 4 x 2.5" NVMe/ SATA hybrid ports</li><li>• Speed and bandwidth: PCIe Gen4 or SATA 6Gb/s</li></ul>
<b>TPM</b>	<ul style="list-style-type: none"><li>• 1 x TPM header with SPI interface</li><li>• Optional TPM2.0 kit: CTM010</li></ul>
<b>Power Supply</b>	<ul style="list-style-type: none"><li>• Dual 3000W 80 PLUS Platinum redundant power supply</li><li>• AC Input: 100-240V</li></ul>
<b>System Management</b>	<ul style="list-style-type: none"><li>• Aspeed® AST2500 management controller</li><li>• AMAX Management Console (AMI MegaRAC SP-X)</li></ul>
<b>OS Compatibility</b>	<ul style="list-style-type: none"><li>• Windows Server 2016 / 2019</li><li>• RHEL 8.3 (x64) or later</li><li>• SLES 12 SP5 (x64) / 15 SP2 (x64) or later</li><li>• Ubuntu 18.04.5 LTS (x64) / 20.04 LTS (x64) or later</li><li>• VMware ESXi 6.7 Update3 P03 / 7.0 Update1 or later</li><li>• Citrix Hypervisor 8.2.0 or later</li></ul>
<b>System Fans</b>	<ul style="list-style-type: none"><li>• 2 x 60x60x76mm (21,700rpm)</li><li>• 5 x 80x80x80mm (17,000rpm)</li></ul>
<b>Operating Properties</b>	<ul style="list-style-type: none"><li>• Operating temperature: 10°C to 35°C</li><li>• Operating humidity: 8-80% (non-condensing)</li><li>• Non-operating temperature: -40°C to 60°C</li><li>• Non-operating humidity: 20%-95% (non-condensing)</li></ul>
<b>Packaging Content</b>	<ul style="list-style-type: none"><li>• 1 x G262-ZR0</li><li>• 2 x CPU fan-sinks</li><li>• 1 x Rail kit</li></ul>
<b>Reference Numbers</b>	<ul style="list-style-type: none"><li>• Barebone with rail kit: 6NG262ZR0MR-Axx (40GB module)</li><li>• Barebone with rail kit: 6NG262ZR0MR-Gxx (80GB module)</li><li>• Motherboard 9MZ62HD5NR-00<ul style="list-style-type: none"><li>- Rail kit: 25HB2-A86102-KOR</li><li>- CPU fan-sink: 25ST1-3532G0-M1R/25ST1-3532G1-M1R</li><li>- Back plane board_2-port: 9CBP2023NR-00</li><li>- Front panel board: 9CFP1000NR-00</li><li>- Power supply: 25EPO-230003-D0S</li></ul></li></ul>

