Digital Storm AI Server Platform

NVIDIA GPU AI Server Platform

4U NVIDIA GPU AI Server Platform

This Digital Storm AI Server Platform is engineered for GPU accelerated AI workloads in a 4U rackmount form factor. The system pairs AMD EPYC 9005 processor support with high speed PCIe expansion, DDR5 memory, hot swap NVMe storage, and enterprise server management for AI training, fine tuning, LLM inference, RAG, and data analytics.

- Single Socket SP5, supports AMD EPYC 9005/9004 Series processor
- 12 DDR5 DIMM slots, 12 channels, 1DPC RDIMM
- 4 PCIe 5.0 x16 slots for high performance GPU expansion
- 12 hot swap 2.5 inch U.2 PCIe NVMe drive bays
- Dedicated server management with IPMI and Redfish support
- Air cooling module for CPU

Applications

AI training and fine tuning
LLM inference
RAG and enterprise AI apps
AI research and model development
GPU accelerated data analytics

SPECIFICATIONS

Dimensions (Width x Height x Depth)
438mm (17.2") Wx 176mm (6.9") Hx 831mm (32.7") D

Processor
Single AMD EPYC™ 9005/9004 Series Processor and with AMD 3D V-Cache™ Technology, up to TDP 500W

Socket
(1) AMD Socket SP5

Memory
(12) DDR5 DIMM Slots, 12 channels (1DPC), RDIMM/RIMM-3DS
- Max. Frequency 6400MT/s (1DPC)
- Max. Capacity per DIMM: 256GB

Expansion Slots
(4) PCIe 5.0 x16 FHFL
(2) PCIe 4.0 x16 slots FHFL slots (x8 signal)

Networking
N/A

Storage
(12) Hot-swap 2.5" U.2 PCIe 4.0 NVMe drive bays

Video
(1) D-Sub 15-pin port from the integrated AST2600 BMC

TPM
(1) TPM header with SPI interface

Server Management
(1) 1000Base-T Dedicated Server Management Port
ASPEED AST2600 with AMI MegaRAC based firmware supporting IPMI 2.0 and DMTF Redfish API

Front I/O
(12) Hot-swap 2.5" drive bays
(1) USB 3.2 Gen 1 Type-A Port
(1) System Power LED Button
(1) UID LED Button
(1) Reset Button
(5) 8038 Easy-Swap chassis fans
(4) Status LEDs : M.2/Fault/LAN

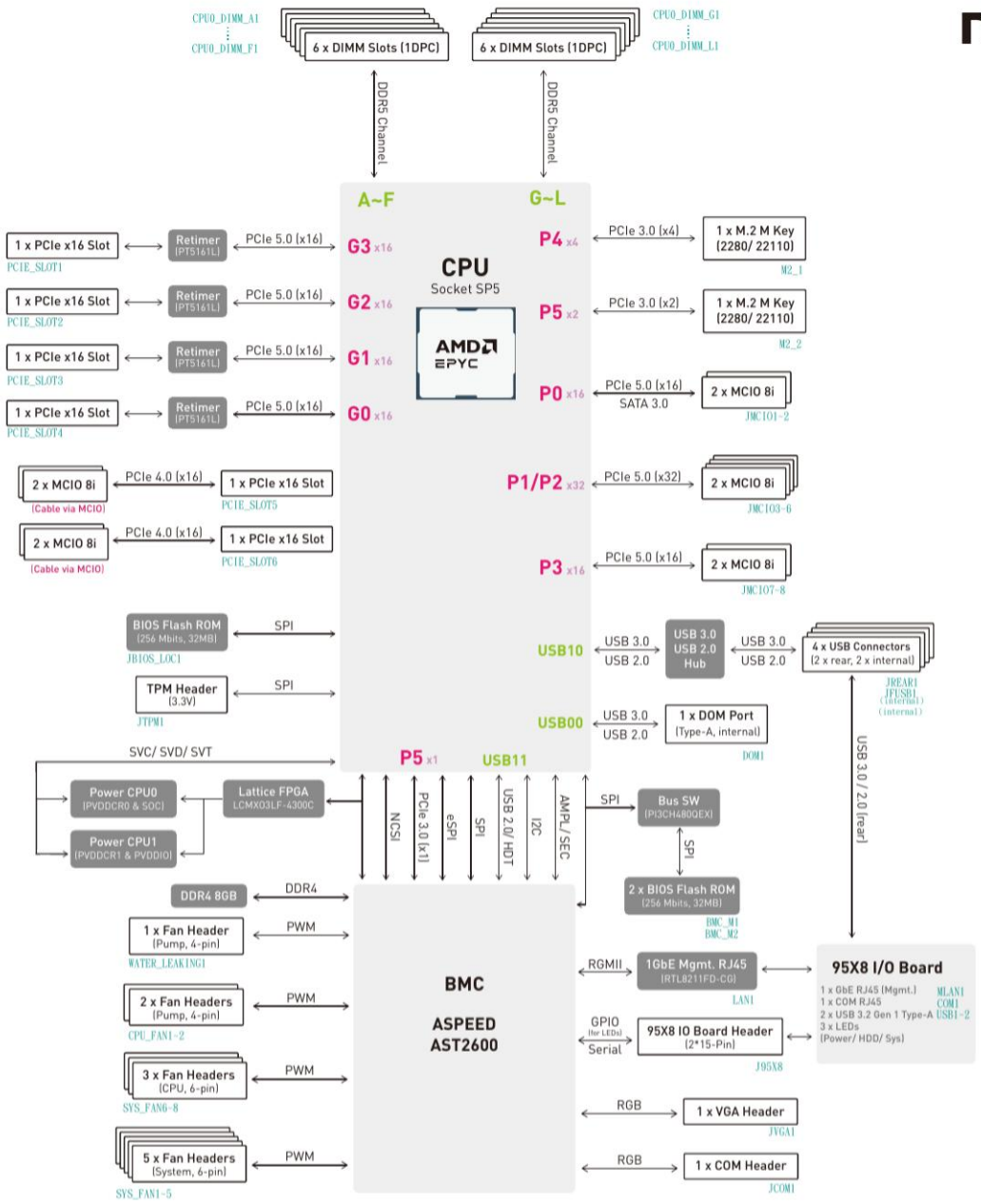
Rear I/O Ports
(1) 1000Base-T dedicated server management port
(2) USB 3.2 Gen 1 Type-A Ports
(1) VGA D-Sub port
(1) COM RJ45 port
(1) UID LED button

Power Supply
(1+1) Redundant 3000W CRPS 80 PLUS Platinum or Titanium

Environmental
System operating temperature: 0°C ~ 35°C Non-operating temperature: -20°C ~ 70°C Non-operating relative humidity: 5% to 85% (non-condensing)

Regulatory
FCC (Class A), CE

Digital Storm System Block Diagram



Top View

Air cooling configuration

Air Cooling and Power Supply Options

Cooling option	Power supply
Air cooling module for max. 500W CPU	Redundant 3000W CRPS 80 PLUS Platinum
Air cooling module for max. 500W CPU	Redundant 3000W CRPS Titanium

Air-cooled configuration only.

Specifications are subject to change without notice.
Contact Digital Storm for validated configuration options.