

Supermicro Visualization & Design

Real-Time Collaboration, 3D Design, Game Development

Increased fidelity of 3D graphics and AI-enabled applications by modern GPUs is accelerating industrial digitization, transforming product development and design processes, manufacturing, and content creation with true-to-reality 3D simulations to achieve new heights of quality, infinite iterations at no opportunity costs, and faster time-to-market.

Build virtual production infrastructure at scale to accelerate industrial digitalization through Supermicro's fully integrated solutions, including the 4U/5U 8-10 GPU systems, an NVIDIA OVX[™] reference architecture, optimized for NVIDIA Omniverse Enterprise with Universal Scene Description (USD) connectors, and NVIDIA-certified rackmount servers and multi-GPU workstations.

Systems

Omniverse Optimized Systems

Highest Performance, Tailored for NVIDIA Omniverse

Large Workload: 4U/5U 8 GPU (PCIe)

- 8 NVIDIA L40S/L40 PCIe
- 3 NVIDIA ConnectX-7
- 16 U.2 NVMe drives



2U Hyper Systems

Flagship Performance Rackmount System Designed for Ulimate Flexibility

Medium Workload: 2U Hyper

- 4 NVIDIA L40 PCIe
- 8 NVMe drives
- 32 DIMMs DDR5-4800



Workstations

4-GPU Rackmount/Full Tower

Al Workstations: 5U Full-Tower Workstation

- 4 NVIDIA L40 PCIe
- Dual 4th Gen Intel® Xeon® Scalable
- 16 DIMM slots DDR5-4800

Graphic Workstations: 5U Full-Tower Workstation

- 4 NVIDIA RTX A6000 or 3 RTX 6000 ADA
- AMD Ryzen[™] Threadripper[™] PRO
- 8 DIMM Slots DDR4-3200



SYS-741GE-TNRT



AS -5014A-TT

Recommended NVIDIA GPUs



L40S

- FHFL DW
- PCle 4.0 x16
- 350W
- 48GB GDDR6



L40

- FHFL DW
- PCle 4.0 x16300W
- 48GB GDDR6



RTX 6000 ADA

- FHFL DW
- PCle 4.0 x16
- 300W 48GB GDDR6

SUPERMICRO

Accelerate Visualization & Design Workloads

Real-Time Collaboration, 3D Design, Game Development

Opportunities and Challenges:

- Al-aided 3D graphics, game development, creative asset generation
- Digitizing industrial design and productization process with virtualized real-world scenarios
- Integrated engineering and enterprise-scale simulations
- · Cloud and virtual collaboration with low latency

Key Technologies:

- NVIDIA OVX reference architecture supporting NVIDIA Omniverse Enterprise, Universal Scene Description (USD) connectors
- NVIDIA RTX GPUs with ray tracing for photo realistic visuals
- NVIDIA BlueField®-2 or BlueField®-3 (DPU) for low latency, secure and fast data management
- Multi-GPU workstation or virtualized workstations
- Rack-scale integration for virtual production and collaboration infrastructure, speedy rendering, fast and secure data storing and transfer

Solution Stack:

- Universal Scene Description Connectors
- NVIDIA Omniverse[™] Enterprise

Use Cases:

- Game development
- Product design
- City planning/architectural
- Digital twins (manufacturing, assembly lines, logistics)

GPU Acceleration for Complete Range of Workloads



Go to www.supermicro.com/ai or scan the QR code to download the AI Workload Solution Brochure:



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