BOLT - Gen4 8GPUs

BISON COMPUTING

The Ultimate Deep Learning Platform

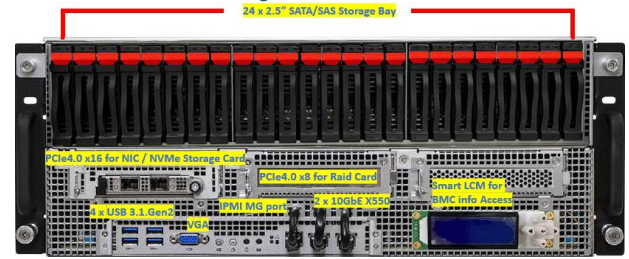**NVIDIA ELITE PARTNER**

KEY FEATURES

- Nvidia GPU Certified
- Powered by AMD ROME 2nd GEN Processor Architecture
- Flexible GPU BP design to support both single and dual root topology
- Supports up to 8 Nvidia GPUs
- Compatible with Nvidia A100 with NVIDIA VNLink™ over PCI Gen4
- High density and hybrid storage design support – 24x 2.5" SSD + 1xM.2 NVMe + PCIe NVMe Storage Card
- Up to 8TB of RAM Capacity
- Ideal for ML, AI Inference and Simulation w/ Quadro Sync-II Support
- Perfect for artificial intelligence, machine learning, deep neural network, flight simulation workloads

Powered by 2nd Gen AMD EPYC

GPU TESTED/CERTIFIED

Bison Computing GPU Computing Server solution is tested and certified as industry leader in GPU computing system with Nvidia® GPU cards optimized for ML/DL applications.
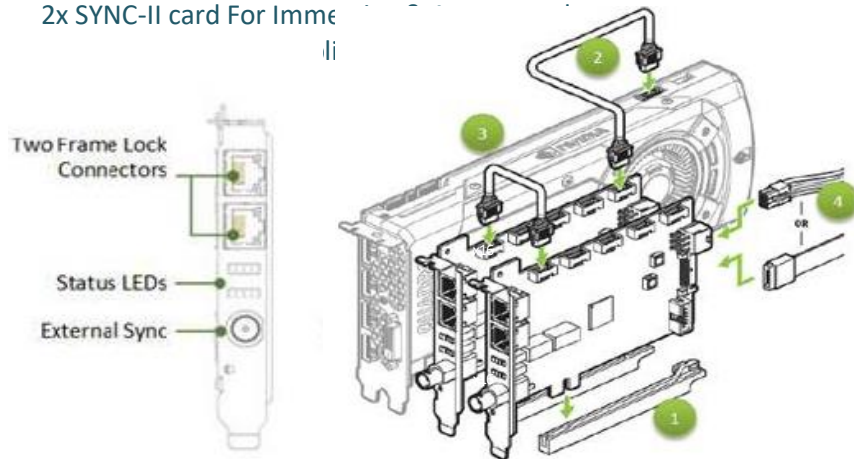
DOD CERTIFICATION

Bison Computing AI/ML Servers are DoD Network Certified and TAA Compliant.

Bison Computing Deep Learning/Machine Learning solution is an 'ALL-IN-ONE' solution. Combining the power of up to 8 GPU cards with high density mix storage – 24x 2.5" + 2x NVMe drives fulfill AI, ML, DL demands.
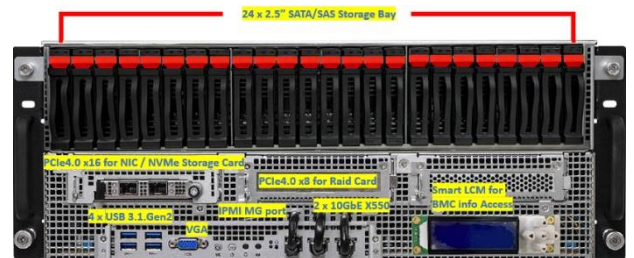
CHASSIS CUSTOMIZATION

Well thermal design provides efficient heat mitigation in tactical operational environment. The custom design provides optimal thermal condition for GPU server.

2x SYNC-II card For Immersive Cutaway.....

Powerful Thermal Management

Specs and Features of the Thunder-AI 4U 8x GPU Server

System Dimension (W x D x H)	438mm x 845mm x 177mm
Processor	Dual CPU - AMD EPYC™ 7002 Series Processors, 1+1 SP3 (LGA 4094), 280W
Memory	32 DIMM slots | Up to 8TB (32 x 256GB LRDIMM DDR4) Supports DDR4 3200/2900/2666/2400 RDIMM, 64GB Module & LRDIMM Modules up to 256GB
LEDs	System ID System Alert LED LAN Power LED System HDD Activity LED System Power LED
Front Panel	LCM – Display System Configuration Information Power On / Off System Reset 4x USB3.0
Front Drive Bays	External: 24 x 15mm 2.5" SATA/SAS SSD hot-swap
Hardware RAID	LSI 9361-24i SATA/SAS High Port Count 12Gb/s RAID Controller LSI CacheVault for LSI 9361-24i RAID 0/1/5/6/10/50/60
Expansion Slots	PCIe 4.0 x16, Rear 8 x FHFL Dual-Slot PCIe 4.0 x16 via 4UXG_SWB PCIe 4.0 x16 & x8, Front 1 x FHHL PCIe 4.0 x16 Slot via Riser 4UXG_SL2P 1 x FHHL PCIe 4.0 x8 Slot via Riser 4UXG_SL2P
System BIOS	AMI UEFI BIOS • ACPI • BIOS Boot Specification • PXE • BIOS Recovery Mode • WOL • SRIOV • AC loss recovery • iSCSI • IPMI KCS interface • TPM • SMBIOS • PCIe Hot plug • Serial console redirection
Front I/O Devices	1 x D-Sub VGA port 4 x USB3.2 Gen1 type A connectors 2 x RJ45 (10GbE) Intel X550-AT2 1x 10/100 RJ45 dedicated IPMI LAN port
Power Supply	1600W 3+1 redundant PSU 80+ Platinum Lowline: 100-127V, Highline: 200-240V
System Cooling	5 Middle 80X80mm hot swap fans 5 Rear 80x38mm hot swap fans
System Management	ASPEED AST2500 1x Realtek RTL8211E for dedicated management GLAN Watch Dog NMI
GPUs	Up to 8x Nvidia GPU cards, max 350W per card Options: Quadro GV100, Quadro P6000, Quadro GP100, Titan XP, Quadro RTX 6000, Quadro RTX 8000, **NVIDIA A100 Tensor Core GPU**
Custom Chassis Features	Strong metal for expeditionary operation and harsh environment, tool-less design for chassis & drive tray, modular design for easy maintenance.
Miscellaneous	Cabling, pre-loaded Centos, Palette strapped for shipping