

Nfina 4508T-AI Workstation



FEATURES:

- Dual socket AI Workstation
- Choice of 5th Generation Intel® Xeon® Scalable Processors
- 16 DIMM slots (DDR5 support)
 - Up to 1.5TB capacity
- 8 x hot-swap drives bays
 - 4 x SSD/HDD support
 - 4 x NVMe/SSD/HDD support
- 2 x M.2 NVMe PCIe slots
- Robust storage capacity
- Up to 2 x NVIDIA® RTX 6000 Ada GPUs, 48GB
 - Supports CUDA™ API
 - Supports NVIDIA RTX Virtual Workstation Software™
- Intel CPUs include built-in AI accelerators in every core
 - Speeds up training and deep-learning inference
 - Eliminates need to add discrete accelerators
- NVIDIA AI Enterprise™ or Intel oneAPI™ AI software available
- Optimized for open-source Data analytics, Modeling, Deep-Learning Frameworks, and Deployment tools

Nfina's 4508T-AI Workstation, built for high-precision AI computing workflows

Data preprocessing, training, and deployment are necessary to put AI to work at scale. In each step, there are different development toolchains, frameworks, and workloads, all of which create unique obstacles and require a different amount of computing power. This is where Nfina's 4508T-AI Workstation comes in.

Powered by 5th Generation Intel Xeon Scalable Processors, 5600MT/s speed memory, and NVIDIA RTX 6000 Ada GPUs, the 4508T-AI Workstation is engineered for dynamic calculations and high-precision computing workflows.

The 5th Gen Intel Xeon processors, equipped with AI acceleration in every core, handle demanding AI workloads without the need for additional discrete accelerators. These processors offer 42% faster inference performance and less than 100 millisecond latency on large language models (LLMs) with under 20 billion parameters compared to the previous generation.¹

The NVIDIA RTX 6000 Ada with 48GBs memory boasts 2x the speed, throughput, and AI performance of previous generations. RTX 6000 provides next-generation rendering, AI graphics, and petaflop inferencing performance by combining 142 RT Cores, 668 Tensor Cores, and 18,176 CUDA cores. A powerful end-to-end AI solution is complete when you add NVIDIA AI Enterprise software and support.

Nfina also places significance on robust storage capacity. The ability to quickly access and store large amounts of data is critical to effectively manage the extensive requirements associated with AI.

NFINA 4508T-AI

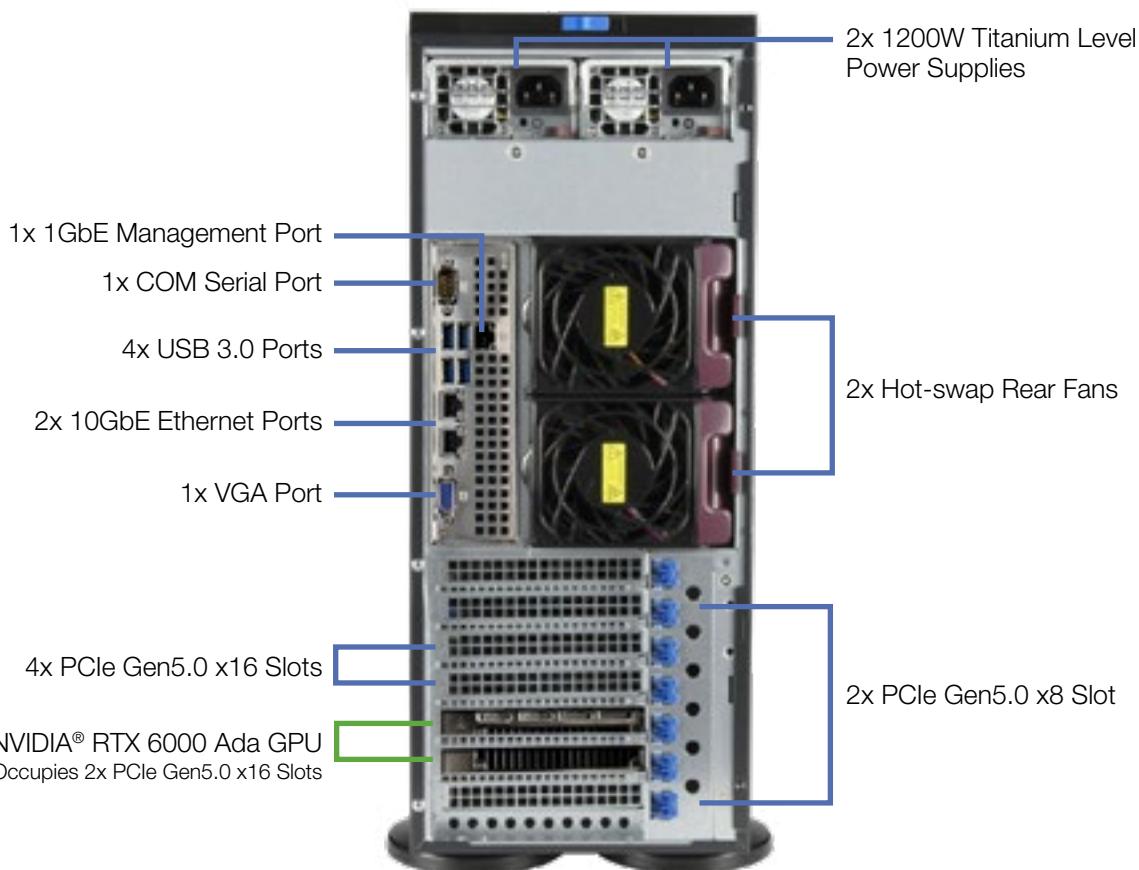
SPECIFICATIONS

Form Factor	Desktop Tower or 4U Rack-mount, 17.8" x 25.5" x 7"
Operating Temperature	10°C to 35°C (50°F to 95°F)
Processors	Dual 5th Generation Intel® Xeon® Scalable processors with integrated AI accelerators, Up to 60 cores, 120 threads and 270W max TDP per processor
Processor Speed	Up to 3.9GHz to 4.2GHz
CPU Cache	Up to 37.5MB
Socket	Dual Socket E LGA-4677
Memory	Up to 16 DIMMs, 5600MT/s DDR5 ECC RDIMM 1.5TB Max memory capacity
External Drives	8x 3.5" or 2.5" hot-swap drive bays – Supports: 4 x SSD/HDD and 4 x NVMe/SSD/HDD drives
Internal Drives	2 x M.2 NVMe slots, PCIe® 4.0 (22110 or 2280)
Optical Drive	48x CD-RW / 24 x DVD +/-RW (optional)
GPU	Up to 2 x NVIDIA RTX 6000 Ada GPUs , 48GB GDDR6 ECC, Dual Slot PCIe 4.0 x16 – 18,176 CUDA cores, 568 Tensor cores, 142 RT cores – Supports up to 4 x displays, 4 x DisplayPort 1.4a connectors – 300W total board power, Active cooling – Virtual GPU software supported: NVIDIA RTX Virtual Workstation™ (Requires license) – Graphics APIs: DirectX™ 12, Shader Model™ 6.8, OpenGL® 4.66, Vulkan® 1.36 – Compute APIs: CUDA™ 12.5, OpenCL™ 3.0, DirectCompute™
RAID	Software RAID 0/1/5/10, Hardware RAID optional, Intel VROC optional
Input Voltage	100-127V @ 7.5A-9A, 50/60 Hz 200-240V @ 5A-6A, 50/60 Hz
Power Supplies	Dual hot-swap 1200W AC
Remote Management	BMC, IPMI 2.0, KVM over HTML5, and Redfish™ API
TPM	Version 2.0, optional
OS Supported	Windows® 11 Pro, Red Hat® Linux® 8.6, Ubuntu™ Linux® 22.04
AI Software Options	NVIDIA AI Enterprise™ license w/ support, Intel oneAPI™ w/ support Both are optimized for PyTorch™, TensorFlow™, scikit-learn™, XGBoost Frameworks
Regulatory Certifications	UL/CSA 62328-1, FCC part 15 (US), FCC (US), CE (Europe), IEC/BS/EN (Europe), ICES (Canada), UKCA (Great Britain), VCCI (Japan), RCM (Australia), NRTL Nemko (US, Canada), CB (US)
Warranty	5 years

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I/O	6 x USB 3.0 ports (2 front, 4 rear) 1 x COM Serial port (rear)
Display	1 x VGA ports (rear)
Ethernet	2 x 10GbE LAN (100/1000/10000) standard 25GbE, 40GbE, 100GbE, & Fibre Channel ports available 1 x 1GbE (Dedicated management port) included
PCIe Slots	4 x PCIe® Gen5 x16 FL/FH 2 x PCIe® Gen5 x8 FL/FH



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