FusionServer

G8550 V8 AI Server

Versatile Computing for Large-Model Training and Inference



XFUSION INTERNATIONAL PTE. LTD.

AI Server
FusionServer G8550 V8

Introduction



G8550 V8

The FusionServer G8550 V8 is our next-generation, flagship air-cooled AI server designed to conquer the diverse and demanding workloads of large-model training and inference.

Engineered for peak performance, rock-solid reliability, effortless deployment, and simplified maintenance, the G8550 V8 supercharges AI training and inference, HPC, video/image analytics, and intensive database applications.

With its highly flexible configuration options, it seamlessly adapts to both enterprise data centers and public cloud environments, empowering your business across every computing scenario.

Highlights

Powerful Performance

- **Outstanding CPU Power**: 2 x 5th Gen AMD EPYC™ 9005 Series (Turin) processors, 500 W TDP per CPU
- **Ultimate Training & Inference Power**: 16 x dual-width GPUs, 600 W TDP per GPU

Pioneering Architecture

- **Modular Design:** high convergence and low coupling across modules, allowing for flexible reconfiguration and independent evolution
- **Ultra-Robust Power Supply:** 8 x 3.2 kW 12 V dual-input PSUs in *N*+1 redundancy, with an expandable power capacity of up to 28.2 kW, fully backward-compatible with single-input power specifications
- **Advanced Air Cooling:** three isolated airflow zones with intelligent airflow control for key components — proven by over 1,000 hours of rigorous stability testing

Agile O&M

- **Toolless & Chassis-in-Rack**: slide-out and blind-mate, effortless hot-swapping for key modules
- **Flexible Topology:** multi-logical configurations for seamless workload tailoring

Technical Specs

Form Factor	10U AI server
Processor	2 x 5th Gen AMD EPYC™ 9005 Series (Turin) processors, each with up to 500 W TDP
Memory	24 x DDR5 DIMM slots at up to 6400 MT/s
Local Storage	CPU direct-connected: 8 x 2.5" SAS/SATA/NVMe drives + 2 x 2.5" NVMe drives Internal: 2 x SATA/PCIe M.2 drives
RAID	RAID 0, 1, 10, 5, 50, 6, and 60; supercapacitors for cache data protection from power failures; RAID level migration, drive roaming, self-diagnosis, and web-based remote configuration
GPU	16 x dual-width GPUs, supports up to 20 dual-width cards*
Network	Flexible networking capabilities, supporting 2 x OCP 3.0 NICs
PCIe Expansion	14 x PCIe expansion slots
Fan	20 x 8080 fans in *N*+1 redundancy
PSU	8 x 3200 W dual-input CRPS modules in *N+1* redundancy
Management	**Standard iBMC Management** • One dedicated GE management port for out-of-band management • Standard interfaces: Redfish, SNMP, IPMI2.0 • Remote console: HTML5/VNC KVM • Key features: fault diagnosis, automated O&M, hardware security hardening, monitoring, configuration, Agentless, and remote control **Optional Software Management** • FusionDirector management software • Five advanced intelligent features • Intelligent, automated, visual, and granular management across the entire lifecycle
OS	Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, Oracle, Ubuntu, and openEuler...
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection
Operating Temperature	5ºC to 35ºC (41ºF to 95ºF), compliant with ASHRAE Class A1/A2
Certification	CE, UL, CCC, VCCI, RoHS...
Installation Suite	L-shaped guide rails and adjustable guide rails
Dimensions (H x W x D)	441.7 mm x 447 mm x 900 mm (17.39 in. x 17.60 in. x 35.43 in.)

** : Reserved specifications*



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