



FusionServer G6550 V8 AI Server

Powerful Computing | Flexible Configuration | Leading Architecture



XFUSION INTERNATIONAL PTE. LTD.

AI Server

FusionServer G6550 V8

Introduction



G6550 V8

The FusionServer G6550 V8 is a next-generation flagship air-cooled AI server engineered to meet the rigorous demands of large model training and inference.

Featuring exceptional performance, robust reliability, and ease of deployment and maintenance, the G6550 V8 accelerates AI training and inference, High-Performance Computing (HPC), image/video analysis, and database applications.

With flexible configurations and scalable AI computing, the G6550 V8 stands as a powerful platform for driving AI innovation and transforming industries.

Highlights



Powerful Computing

- General Computing: 2 x 5th Gen AMD EPYC™ 9005 Series processors, each with up to 500 W TDP; 24 x DDR5 DIMMs
- AI Computing: 10 x dual-width GPUs



Flexible Configuration

- **Support for Multi-Form GPUs:** a maximum TDP of 600 W
- **Flexible Topology Options:** pass-through and switch
- **MPC Algorithm:** fan power savings of approximately 1.1%



Leading Architecture

- **Modular Design:** high convergence and low coupling among modules, allowing for flexible reconfiguration and independent evolution
- **Agile Cabling:** front or rear cable routing options based on actual data center scenarios and maintenance practices
- **Efficient O&M:** maintenance without component removal

Technical Specifications

Form Factor	6U AI server
Processor	2 x 5th Gen AMD EPYC™ 9005 Series processors, each with up to 500 W TDP
Memory	24 x memory slots available for DDR5 DIMMs at up to 6400 MT/s
Local Storage	- Up to 10 x 2.5" SAS/SATA/NVMe drives - supports two M.2 SSDs
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 remote web-based configuration
GPU	10 x dual-width GPUs
Network	1 x OCP 3.0 NIC
PCIe Expansion	- Passthrough model: Up to 11 x standard PCIe 5.0 slots - Switch model: Up to 15 x standard PCIe 5.0 slots
Fan	GPU: 12 or 18 x 6056++ fans in N+1 redundancy CPU: 6 x 6056++ fans in N+1 redundancy
PSU	- 8 x 3200 W single-input or dual-input CRPSs in N+N redundancy
Management	- The iBMC chip integrates one dedicated management GE port, providing comprehensive management features such as fault diagnosis, automatic O&M, and hardware security hardening. - The iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0, provides a remote management user interface based on HTML5/VNC KVM, and supports out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management. - It is optional to configure FusionDirector that enables intelligent, automatic, visualized, and refined management throughout the server 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	5°C to 35°C (41°F to 95°F), compliant with ASHRAE Class A1/A2
Certification	CE, UL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	263.9 mm x 447 mm x 850 mm (10.39 in. x 17.60 in. x 33.46 in.)



Copyright ©xFusion International Pte. Ltd. 2026. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of xFusion International Pte. Ltd.

Trademarks and Permissions

xFUSION and other xFusion trademarks are trademarks of xFusion International Pte. Ltd. All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

In this document, "xFusion" is used to refer to "xFusion International Pte. Ltd." for concise description and easy understanding, which does not mean that "xFusion" may have any other meaning. Any "xFusion" mentioned or described hereof may not be understood as any meaning other than "xFusion International Pte. Ltd.", and xFusion International Pte. Ltd. shall not bear any liability resulting from the use of "xFusion".

The purchased products, services and features are stipulated by the contract made between xFusion and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.