

FusionServer

Data Center Heterogeneous Server



FusionServer

G5500 Data Center Heterogeneous Server

Superb Performance
Flexible Configuration
Fully Modular Design



FusionServer G5500 adopts a fully modular, heterogeneous, decoupled system design. It provides full-width and half-width heterogeneous compute nodes and supports PCIe GPU. Featuring high-density heterogeneous computing, the server offers various heterogeneous topology configuration options and one-click topology switching, and supports long-term evolution of CPU and heterogeneous computing technologies. The FusionServer G5500 is suitable for acceleration of applications such as AI, HPC, intelligent cloud, video analytics, and database, making it an ideal heterogeneous computing platform for large-scale data center deployment.



Full-width heterogeneous compute node



Half-width heterogeneous compute node



Exceptional Heterogeneous Computing Capabilities

- Supports 1 full-width or 2 half-width heterogeneous compute nodes
- Supports up to 8 full-height full-length (FHFL) dual-slot, or 16 full-height half-length (FHHL) single-slot, or 32 half-height half-length (HHHL) single-slot PCIe heterogeneous accelerator cards
- Supports the GPUDirect (RDMA and peer-to-peer) interconnect technology



Flexible Heterogeneous Topology Configuration

- Supports one-click topology switching and topology configuration without opening the chassis cover
- Support multiple topologies with CPU/GPU configuration ratios of 1:2, 1:4, and 1:8



Fully Modular Design

- With the design of decoupled CPU module and heterogeneous modules, support CPU and heterogeneous unit for long-term evolution
- Power supply units (PSUs), hard drives, and fan modules are designed in a fully modular style, supporting hot swap and redundancy backup and simplifying O&M

FusionServer

G5500 Data Center Heterogeneous Server

	G5500 chassis
Form factor	4U standard chassis
Node support	1 full-width or 2 half-width heterogeneous computing nodes
Power supply units	Four 80 Plus Platinum 2,000 W/2,200 W AC hot-swappable PSUs N+N redundancy supported
Fan modules	6 hot-swappable fan modules with smart speed tuning N+1 redundancy supported
PCIe expansion	4 PCIe Gen3 x16 HHHL NICs (IB/OPA/Ethernet)
Management	Aggregation management network port supported
Power supply	110 V/220 V AC or 240 V HVDC
Dimensions (H x W x D)	175 mm x 447 mm x 790 mm (6.89 in. x 17.60 in. x 31.10 in.)

	G560 V5	G530 V5
Form factor	Full-width heterogeneous compute node	Half-width heterogeneous compute node
GPU accelerator card	Up to 8 NVIDIA® Tesla® A100/A800/V100S/V100/P100/P40/T4	Up to 16 NVIDIA® Tesla® T4 or 4 A100/A800/V100S/V100/P100/P40
GPU form factor	PCIe GPU	
Processors	2 Intel® Xeon® Scalable processors	
Memory	Up to 24 DDR4 DIMMs	
Internal storage	PCIe GPU model: 8 x 3.5-inch SSDs or SAS/SATA HDDs, 6 x 2.5-inch NVMe SSDs or SAS/SATA HDDs and 2 x 2.5-inch SSDs or SAS/SATA HDDs	16-T4 model: 2 x 2.5-inch NVMe SSDs or SAS/SATA HDDs 4 dual-slot GPU model or 8 single-slot GPU model: 4 x 3.5-inch SSDs or SAS/SATA HDDs and 2 x 2.5-inch NVMe SSDs or SAS/SATA HDDs
RAID support	RAID 0, 1, 10, 5, 50, 6, or 60, providing a supercapacitor to protect data in the case of power failures	
Operating systems	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Cent OS, Ubuntu	
Management	On-board iBMC management module Support management features such as IPMI, SOL, KVM over IP, and virtual media	
Operating temperature	5°C to 35°C (41°F to 95°F)	

xFusion Digital Technologies Co., Ltd.

Consulting telephone: 400-080-6888 **Technical hotline:** 400-009-8999 **Address:**

9th Floor, Building 1, Zensun Boya Square, Longzihu Wisdom Island, Zhengdong New District, Zhengzhou, Henan Province

Address: www.xfusion.com

Copyrights © xFusion Digital Technologies Co., Ltd 2022. 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 Digital Technologies Co., Ltd.

Trademarks and Permissions

αFUSION and other xFusion trademarks are trademarks of xFusion Digital Technologies Co., Ltd. All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between xFusion Digital Technologies Co., Limited 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.