Huawei FusionServer

G5500 Data Center Heterogeneous Server

Superb Performance
Flexible Configuration
Fully Modular Design

Huawei FusionServer G5500 adopts a fully modular, heterogeneous, decoupled system design. It provides full-width and half-width heterogeneous compute nodes and supports heterogeneous accelerator cards of various types such as PCIe GPU, SXM2 GPU, and PCIe FPGA. 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) single-slot or 32 half-height half-length (HHHL) dual-slot PCIe heterogeneous accelerator cards, or 8 SXM2 GPUs
- Supports the NVLink or 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

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	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 2,200 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® V100/P100/P40/P4/T4	Up to 16 NVIDIA® Tesla® P4/T4 or 4 V100/P100/P40 or 8 V100(150 Watt)
GPU form factor	PCIe GPU or SXM2 GPU	PCIe GPU
Processors	2 Intel® Xeon® Scalable 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 **SXM2 GPU model:** 8 x 2.5-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-P4 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	
Operting 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)	

For more information

To learn more about Huawei's Servers, contact Huawei sales representatives or business partners, or visit:
http://e.huawei.com/en/products/cloud-computing-dc/servers

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