



Huawei FusionServer X6000 High-Density Server



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Huawei FusionServer X6000 High-Density Server



Huawei FusionServer X6000 is a high-density server that Huawei developed for the data center scale-out architecture. With an optimized density design, the X6000 improves data center space utilization and investment efficiency, and is ideal for service scenarios such as cloud computing, web applications, and high-performance computing (HPC).

Ultra-High Density Design Reducing Equipment Footprint

- Provides a computing density twice that of a conventional 1U rack server, significantly maximizing space utilization in the equipment room.
- Accommodates four compute nodes in a 2U chassis with up to twenty-four 2.5-inch NVMe SSDs.

Unified Management and Easy Maintenance

- Provides a unified management port for managing the entire chassis and all nodes, enabling easier deployment and maintenance.
- Adopts a modular design and hot-swappable key components such as hard disks, fan modules, and power supply units (PSUs), greatly improving O&M efficiency.

Shared Architecture and High Energy Efficiency

- Enables server nodes to share two PSUs and four fan modules, which improves resource utilization and reduces energy consumption.
- Uses Huawei Dynamic Energy Management Technology (DEMT) to intelligently adjust energy consumption.

Product Specifications

Form Factor	2U multi-node server
Server Nodes	4 half-width server nodes
Power Supply Units	2 hot-swappable 1500 W AC PSUs in 1+1 redundancy mode
Fan Modules	4 hot-swappable fan modules in N+1 redundancy mode
Power Supply	110 V to 220 V AC
Operating Temperature	5°C–40°C (41°F–104°F)
Certification	CE, UL, FCC, CCC, VCCI, and RoHS
Dimensions (H x W x D)	86.1 mm x 436 mm x 805 mm (3.39-in. x 17.17-in. x 31.69-in.)

Note: Holding rails and cable racks are required to implement fan module hot swap.

Huawei XH321 V3 Server Node



The XH321 V3 is a new-generation half-width 2-socket server node for the Huawei X6000 high-density server. Powered by Intel® Xeon® E5-2600 v3/v4 series processors, it supports sixteen DDR4 DIMMs and is ideal for server applications, such as cloud computing, web applications, and HPC.

Outstanding Computing Performance for Diverse Computing Scenarios

- Supports Intel® Xeon® E5-2600 v3/v4 series processors with each supporting up to twenty-two cores and 55 MB L3 cache capacity.

Full NVMe SSD Storage

- Supports up to six 2.5-inch NVMe SSDs and delivers an ultra-high 4.8 million IOPS, significantly improving storage performance.

Easy Installation and O&M

- Adopts a modular design. Provides pluggable modules for quicker deployment, easier maintenance, and shorter service rollout time.
- Uses Huawei's eSight comprehensive O&M solution, implementing batch OS deployment and batch BIOS, BMC, and RAID configuration.

Product Specifications

Form Factor	Half-width server node
Processors	1/2 Intel® Xeon® E5-2600 v3/v4 series processors
Memory	16 DDR4 DIMMs
Internal Storage	6 x 2.5-inch SATA/SAS HDDs or NVMe/SAS/SATA SSDs
LOM Network Ports	2 GE or 2 GE + 2 x 10GE
Management	Supports SNMP and IPMI. Provides virtual KVM, virtual media, SOL, remote control, hardware monitoring, and intelligent power supply. Adopts the power capping technology and independent management network ports, and supports NC-SI.
Operating Systems	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Citrix XenServer, Vmware ESXi
Operating Temperature	5°C–40°C (41°F–104°F)
Certification	CE, UL, FCC, CCC, VCCI, and RoHS
Dimensions (H x W x D)	40.5 mm x 177.9 mm x 545.5 mm (1.59-in. x 7.00-in. x 21.48-in.)

Note: The operating systems supported are subject to the compatibility table. When the processor power exceeds 120 W, the highest operating temperature that the node supports is 35°C (95°F).