

FusionServer X6000 V7 High-Density Server





Introduction



X6000 V7 (drives)



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The FusionServer X6000 V7 is a new-generation 2U high-density server that is rearchitected for serving Internet service provider (ISP) and high-performance computing (HPC) customers to meet their demands on large-scale server deployment. The servers apply to Internet, HPC, cloud computing, and data center applications, as well as software-defined storage (SDS), big data, and software-defined infrastructure (SDI).



Features



Extreme Heat Dissipation, Achieving Peak Computing Power Density

- Houses 8 x 4th Gen Intel® Xeon® Scalable processors in a 2U space with TDP up to 350 W
- Accommodates up to 5 x air-cooled servers (after power supply reconstruction) or up to 18 x liquid-cooled servers in a chassis



Robust Power Supply, Giving a High-Reliability Assurance

- Houses 4 x 3000 W PSUs in a 2U space, the only one in the industry
- Provides PSUs in 2+2 redundancy mode in a 2U space, the only one in the industry
- Supports stable operation of four nodes with one PSU and provides shared backplanes
- Uses 80 PLUS Titanium PSUs that provide a conversion efficiency of up to 96.5%



New-Generation Architecture, Higher Performance and Bandwidth

- Uses new-generation architecture, improving the system performance by up to 59%
- Supports 4 x UPI 2.0 links, increasing the cross-CPU access performance by about 30%
- Provides a maximum memory capacity of 16 TB and DDR5
- Supports PCIe 5.0 full ports, which doubles the network bandwidth



Technical Specifications

Form Factor	2U 4-node chassis
Server Node	4 x 1U half-width 2-socket server nodes
PSU	4 x hot-swappable 1500W, 2000W, or 3000W AC PSUs in 1+1, 3+1, or 2+2 redundancy mode (Configured based on the power consumption of the server and a single PSU.)
Power Supply	100V to 240V AC, 240V DC
Fan Module	4 x hot-swappable 8080++ fan modules in N+1 redundancy mode
Operating Temperature	5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1 to A4
Certification	CE, UL, FCC, CCC, VCCI, and RoHS
PCIe expansion	A node supports a maximum of four PCIe expansion slots, including one built-in RAID controller card slot, one FlexIO expansion slot dedicated for OCP3.0 NICs, and two standard PCIe expansion slots
Dimensions (H x W x D)	447 mm × 899 mm × 86.1 mm (17.60 in. x 35.39 in. x 3.39 in.)



Introduction

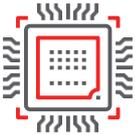


XH321 V7

The FusionServer XH321 V7 is a new-generation 1U half-width 2-socket server node of xFusion, innovatively designed to break through energy constraints and improve system computing power density. It features powerful heat dissipation, ultra-high computing power density, highly reliable power supply system, and increased performance and bandwidth. It is ideal for multiple application scenarios such as data centers, cloud computing, big data, and the Internet.



Features



High-Density Computing Power and Superior Performance

- Up to 2 x 4th Gen Intel® Xeon® Scalable processors with TDP up to 350W
- Up to 16 x 4800 MT/s DDR5 DIMMs and up to 4096 GB memory capacity
- NVMe SSDs for acceleration and 2+4 balanced configuration, eliminating I/O bottlenecks
- 2 x M.2 SSDs that function as high-speed and reliable OS boot drives



Robust Reliability

- 3000W highly reliable PSUs and hot swap maintenance
- RAID cache and supercapacitors for data protection from power failures



Technical Specifications

Form Factor	1U half-width 2-socket server node
Processor	2 x 4th Gen Intel® Xeon® Scalable processors with 350W TDP per processor
Memory Slot	16 x DDR4/DDR5 DIMM slots, and up to 4096 GB memory (configured with 256 GB DDR5 DIMMs) at 4800 MT/s
Local Storage	Up to 6 x 2.5-inch SAS/SATA/SSD/NVMe drives. NVMe drives support 2+4 balanced configuration Up to 2 x M.2 2280 or 2242 SATA SSDs Mixed configurations of different types of drives
RAID	RAID 0, 1, 5, 6, 10, or 50 and supercapacitor for power failure protection M.2 SSDs in RAID 0, 1, or 5
PCIe Expansion	2 x PCIe 4.0 or PCIe 5.0 x16 half-height half-length (HHHL) expansion slots
OCF Expansion	1 x OCP 3.0 expansion slot, support PCIe 5.0
Management	<ul style="list-style-type: none"> • The iBMC chip integrates one dedicated management GE network 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 interface based on HTML5/VNC KVM, and supports CD-free deployment and Agentless for smart and simplified management. • Four compute nodes can be aggregated into one management port to simplify management. • It is optional to configure the FusionDirector management software that provides advanced management functions such as stateless computing, batch OS deployment, and automatic firmware upgrade, realizing intelligent and automatic management throughout the lifecycle.
Supported OS	FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, and Debian
Operating Temperature	5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1 to A4
Certification	CE, UL, FCC, CCC, VCCI, and RoHS
Dimensions (H x W x D)	218.7 mm x 632 mm x 40.7 mm (8.61 in. x 24.88 in. x 1.60 in.)

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