

BlueBrain Algorithm Server IDS

AI-FAS-EX-S100

Making Cities Better

Product Overview

The product is a newly launched 2U rack server by SuperVision. It adopts the Intel C621 high-performance chipset, supporting up to two 3rd Generation Intel® Xeon® Scalable processors. The unit supports a maximum memory capacity of 4TB, accommodates 8 hot-swappable 3.5-inch / 2.5-inch hard drives, and allows flexible expansion of full-height full-length PCI-E devices. Its highly integrated design delivers powerful computing performance within a compact chassis to sustain mission-critical workloads. It incorporates advanced management functions and storage technologies, featuring reliable scalability and high availability.

Product Appearance



Functionality Features

- Suitable for mail & message processing, web search, access servers, and enterprise information management;
- Supports intelligent large-scale virtualization and large-node high-performance computing.
- The optimized 2U rack form factor enables rapid deployment and efficient maintenance for large-scale cluster solutions.
- Up to 140% performance improvement over previous generations with superior energy

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efficiency.

- Enhances security, eliminates I/O bottlenecks, optimizes density and performance, and delivers reliable virtual resources. It addresses storage challenges brought by explosive data growth, providing robust and dependable solutions for private, public and hybrid clouds.
- Supports up to two 22-core 3rd Generation Intel® Xeon® Scalable processors to deliver robust computing power for heavy workloads.
- Integrated with Intel® QuickAssist Technology (Intel® QAT) and Intel® Advanced Vector Extensions 512 (Intel® AVX-512).
- 8 memory channels with 8 DIMM slots, supporting up to 1TB DDR4 2933MHz memory.
- Full compatibility with M.2 and U.2 storage devices for faster transmission speed, lower power consumption and higher reliability.
- 5 expansion slots for flexible peripheral connection options.
- Onboard dual Gigabit Ethernet ports with load balancing, link aggregation and redundancy to reduce network latency; 1 dedicated 1000M remote management port.
- Supports up to 8 hot-swappable 3.5" / 2.5" SATA/SAS/SSD drives; optional rear bay for additional 2 x 2.5" SATA/SAS/SSD drives (SAS support requires optional SAS expansion kit).
- Optional SAS RAID5 to boost data processing performance and data protection.
- Intelligent thermal cooling system reduces noise and maintains constant internal temperature; full-shield EMI design for radiation suppression, anti-interference and anti-static protection.
- Intel® QAT delivers high-performance security and accelerated compression, offering reliable protection for virtual and cloud environments via network, cloud and storage acceleration.
- Optional 1+1 fully redundant power supply; supports PMBUS power consumption monitoring and module loss alarm for enhanced operational safety.
- Supports frequency throttling to cut system energy consumption under light loads.
- Fan speed dynamically adjusted based on temperature of critical thermal components to save power, lower noise and extend fan service life.
- Built-in energy efficiency management with automatic power control to maximize workload output per unit resource.

TECH Specifications

Parameter Name	Parameter Value
Form Factor	2U Rack Server
Processor	2 × Intel Xeon Silver 4314 Processor 2.40 GHz / 24 MB Cache / 16 Cores 32 Threads / 135W / 2 UPI / 2666 MHz
Memory	2 × 64GB DDR4 2933MHz / 3200MHz ECC REG RAM
Storage Drives	6 × 4TB SATA Enterprise HDD, 7200 RPM, 3.5-inch 2 × 480GB SATA 6Gb/s Read-optimized SSD, 2.5-inch, <1 DWPD
GPU Accelerator Card	1 × NVIDIA A10, 24GB VRAM
Network Adapter	1 × Dual-port 10GbE NIC with dual multimode SFP+ modules, Intel 82599 chipset (equivalent to X520-SR2 OEM, Part No. 18020040)

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Power Supply	1 × 800W Platinum Efficiency CRPS modular power supply, 1+1 redundant design
RAID Controller	1 × LR382A 8-port SAS 12Gb/s half-height PCIe 3.0 x8, 1GB cache Supports RAID 0,1,5,6,10,50,60, JBOD
RAID Support	SATA RAID 0/1/10/5 standard; Optional SAS RAID 0/1/10/5/50/6/60; RAID cache options: No cache / 1GB / 2GB; optional cache power failure protection
PCIe Expansion Slots	Multiple full-height full-length PCI-E slots: 2 × full-height PCIe 4.0 x8 + 1 × full-height PCIe 4.0 x16
External Ports	USB2.0: 2 ports (rear) USB3.0: 3 ports (2 front, 1 internal) VGA: 1 port (rear) Dedicated Management Port: 1 RJ45 (rear)
Cooling Fans	3 hot-swappable fans
Power Supply Options	Standard 550W Platinum AC power module; supports 1+0 single power or 1+1 redundant power modes Optional power modules: 550W / 800W / 1200W Platinum AC
Server Management	IPMI 2.0 compliant; 100/1000 Mbps RJ45 management port with integrated iKVM for remote management
Display Controller	Integrated ASPEED AST2500
Supported Operating Systems	Windows Server 2012 R2 Red Hat Enterprise Advanced Server 7.5
Power Input	220V AC / 240V DC
Physical Dimensions	H 87mm × W 438mm × D 660mm, fits standard 19-inch rack Approx. 17KG gross weight for base configuration
Environmental&Compliance	Environmental & Compliance Standards
Operating Temperature	10°C ~ 35°C (in operation) -40°C ~ +55°C (storage, non-operating)
Relative Humidity	Up to 95% RH non-condensing at 25°C~30°C (storage)
Noise Level	Sound pressure <50 dBA measured from side during operation; sound intensity 6.2 BA at ambient temp below 28°C
ESD Protection	15KV per Intel environmental test specifications

