Inspur i24 M5 Server

High-density 2U Four-node Server of New Generation for Data Center

The i24 M5, a 2U four-node (2U4N) high-density server perfectly demonstrates the characteristics of high density, efficiency, reliability and intelligence in limited space, and meets the deployment requirements of customers with higher density. Achieving triple savings in data center space resources, energy efficiency, and deployment costs is an excellent solution for customers to reduce cloud computing data center TCO. Mainly for large and medium-sized enterprises, Internet and other users, for high-performance computing, cloud applications, distributed infrastructure, hyperconvergence infrastructure platform and other applications to provide flexible solutions.

Product Features

2U4N, High density and efficiency

The i24 deploys four 2-socket nodes in a 2U space increasing the compute density by four fold, providing better server room space utilization.

The modular node design achieves rapid deployment, increases operation efficiency during node replacement and upgrading, and a 50% reduction in deployment time.

A unified power supply and cooling system is shared between each node in the chassis allowing for greater efficient utilization of power supply and fans. Each server node provides average energy savings of up to 15%.

High reliability, Easy management

A configuration of 1+1 redundancy power supply and fans ensure stable system operations and lowered risk of lessened availability due to server room or component malfunction.

The i24 supports TPM encryption chips to ensure data security as well as security control of the information system.

The i24 also supports a BMC+CMC dual-management model for an effortless unified management of the server's power supply and fans. In addition, users can check the regulatory information of each node through the remote management module.

Ultimate performance, Flexible architecture

With an all-flash mode, the 24 NVMe hard drives are fully configurable, resulting in a ten-fold speed. As a result, users can obtain higher input/output operations per second (IOPS), as well as faster access to cache and lower latency.

The i24 supports multiple Optane™ PMem storage configurations, enhanced storage capacities, and non-volatility memory and storage. Consequently, the enhanced data processing speed meets diverse application requirements.

Each node also supports more standard PCIe expansion slots, multiple network connector options and greater network structure configuration flexibility.

Product Specification

Component	Description	
Specifications	Four 2-socket compute nodes in a 2U space	
Processor	Supports two Intel® Xeon® Scalable processors Each processor supports up to 28 cores with a frequency of 2.2GHz Each processor supports up to a frequency of 3.8GHz (4 cores) 2 x 2 UPI interconnected chains, maximum speed of 10.4GT/s The highest TDP of 205W	
Chipset	Intel C622/C624/C627	
Memory	Each node supports up to 16 DDR4 2400/2666/2933MHz memory Each CPU supports 8 DIMMs, two CPUs support 16 DIMMs. Supports RDIMM/LRDIMM/Optane™ PMem (Up to 128GB per DIMM) Each node supports up to 2TB of memory (128GB per DIMM)	
Storage controller	SATA controller on motherboard, supports RAID 0/1/5/10 Standard PCIe RAID controller RAID 0/1/10/1E/5/6/10/50	
Network port	Each node supports one OCP/PHY card and two PCIe network cards OCP:Supports 1/2 ports on 25Gb/s network card PHY:Supports 2/4 ports on 1/10Gb/s network card Standard PCIe: Supports 1/2/4 ports on 1/10/25/40Gb/s Ethernet card Supports 1/2 ports on 56/100Gb/s InfiniBand card Supports 1/2 ports on 16Gb/s FC card	
I/O expansion slot	Each node supports two PCIe 3.0 x16 slots	
Ports	1 SUV port per node (expands up to 2 USB 2.0 ports, 1 VGA port, and 2 serial ports) 1 IPMI port	
Fan	80mm cooling fans with N+1 redundancy	
Power supply	Supports 2 x 2000W PSUs (platinum), 1+1 redundancy	
System management	Supports BMC+CMC dual management module, IPMI, KVM Over IP and virtual media.	
Operating system	Supports Windows Server/ Red Hat/ SUSE/ Citrix/ Oracle/ Neokylin/ ESXi/ Ubuntu etc.	
Storage	Each node supports up to 3x 3.5" front HDDs Each internal node supports up to 2x M.2 SSDs Chassis supports up to 12x 3.5"front HDDs	Each node supports up to 6x 2.5" front HDDs Each internal node supports up to 2x M.2 SSDs Chassis supports up to 24x2.5"front SSDs
Size	Chassis with 3.5" HDDs: 446mm(W)×87.5mm(H)×845mm(D) Package size 721mm(W)x 279mm(H)x 1168mm(D)	Chassis with 2.5" SDDs: 446mm(W)×87.5mm(H)×805mm(D) Package size 721mm(W)x279mm(H)x 1168mm(D)
Chassis weight	Fully loaded 3.5" chassis gross weight: 42.9kg/58kg (includes server + package + rail kit + components box)	Fully loaded 2.5" chassis gross weight : 40.5kg/53kg (includes server + package + rail kit + components box)
Operating temperature	5℃-35℃	

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