

Inspur i24LM6

High Density Liquid Cooled Server



i24LM6 is Inspur's latest 2U 4-node high-density liquid-cooled server which is optimized for high-density data center and high-performance computing. It flexibly provides air-cooled and liquid-cooled configurations for computing-intensive key business applications such as HPC and big data. i24LM6 supports the latest Intel Ice Lake processors with optimized-design liquid cooling which covering CPU, memory and VR, achieving excellent computing and heat dissipation performance. Based on i24LM6, Inspur provides an exclusive air-liquid CDU solution, which helps clients to quickly deploy liquid-cooled system without data center modification, greatly improving deployment efficiency and reducing operation costs.

Feature

Extreme Performance

- 4 2-socket compute nodes in 2U Chassis, with 8 Intel Ice Lake processors, achieving industry highest density.
- 5% performance improvement with liquid cooling
- 16 3200MT/s DIMMs in each node, meeting the needs of high-density computing and large-capacity memory

High Efficiency Liquid Cooling

- Warm water cooling, up to 80% heat to water ratio
- Water cooling covers CPU/DIMM/VR, PUE \leq 1.1
- Less cooling devices deployment in data center, significantly reducing cooling costs

Intelligent Maintenance

- Node-level water leakage detection, leakage node can be located accurately and powered off automatically, effectively reducing risks
- The cabinet integrates dynamic environment monitoring devices to monitor temperature, humidity and leakage information in real time, achieving intelligent maintenance

Flexible Deployment

- Two kinds of pipes (hose and metal) to choose, covering different customer demands
- Exclusive air-liquid CDU solution, quickly deploying liquid-cooled system without data center modification. Together with the large-scale liquid-liquid cluster solution, covering all application scenario demands of customers



SPEC

Model	i24LM6
Specifications	4 independent hot-swappable nodes in 2U Chassis
Storage	Config 1: 24*2.5" NVMe Config 2: 16*2.5" SAS/SATA/NVMe+8*2.5" SAS/SATA Config 3: 12*3.5" SAS/SATA
PSU	2*2000W 80Plus platinum PSUs, support dynamic power capping, 1+1 redundancy
Cooling	Four 80mm system fans in the middle of the chassis, N+1 redundancy; liquid cooling
Chassis	2.5" config: 446mm(W)*87.5mm(H)*805mm(D) 3.5" config: 446mm(W)*87.5mm(H)*844.5mm(D)
Operating temperature	5°C - 35°C/45°F - 95°F
Weight	2.5" config: net weight 45.5kg (fully equipped), gross weight 75.6kg (host+package+rail+accessory+pallet) 3.5" config: net weight 49.8kg (fully equipped), gross weight 79.8kg (host+package+rail+accessory+pallet)
Model	NS5160LM6
Specifications	1U half-width 2-socket compute node
CPU	Each node supports 2 Intel® Xeon® Scalable Processors (Ice Lake), TDP 270W, 3 UPI links
Chipset	Intel® C621A chipset
Memory	Each node supports 16 DDR4 3200MHz RDIMM/LRDIMM, up to 2TB
PCIe expansion	Each node supports 1 PCIe 4.0 x16 slot
I/O	Each node supports 1*SUV port (1 VGA, 1 USB 3.0, 2 USB2.0, 1 serial port) +1 RJ45 IPMI port
Storage	Config 1: Each node supports 4*2.5" SAS/SATA/NVMe + 2*2.5" SAS/SATA Config 2: Each node supports 6*2.5" NVMe Config 3: Each node supports 3*3.5" SAS/SATA Each node supports 2 SATA/PCIe M.2
RAID	Support RAID card
NIC	Each node supports 1 OCP3.0 NIC with NCSI
OS	Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Oracle Linux, VMware ESXi, Ubuntu