



FEATURES



PRECONFIGURED AND FULLY TESTED
Best-in-class components engineered to work together



EASY TO MANAGE
Simple, intuitive management via GUI, API, or CLI



INTEGRATED STORAGE TIERING
Tier to multiple S3 targets for infinite capacity scaling and lowest cost



INDUSTRY LEADING PERFORMANCE
World's fastest file system with native NVMe and NVIDIA GPUDirect Storage



EXASCALE CAPACITY
Scale to petabytes of NVMe and exabytes of Object storage



UNIFIED ACCESS
POSIX compliant with support for NFS, SMB, S3 gateway, and NVIDIA GPUDirect Storage



HYBRID CLOUD INTEGRATION
Backup or burst to the cloud for near unlimited resources



TRANSPARENT SNAPSHOT CAPABILITY
Integrated backup and disaster recovery

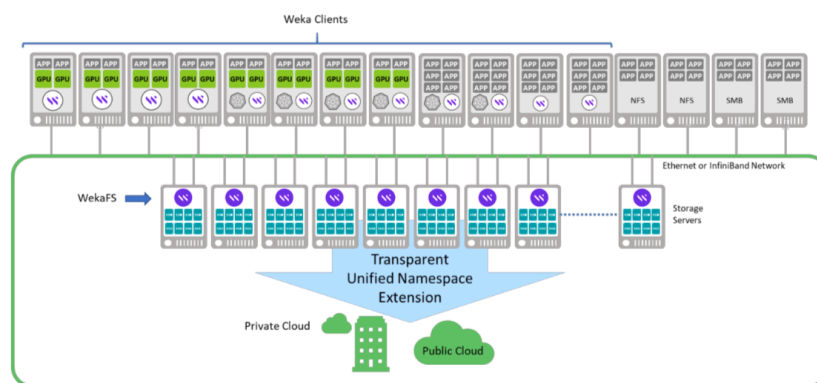
Supermicro® AI / HPC Solution Bundle

Featuring WekaFS™ and the latest Award Winning Twin Servers with 3rd Gen Intel® Xeon® Scalable Processors

Accelerate High Performance Workload

Designing and implementing Artificial Intelligence (AI) and High Performance Computing (HPC) infrastructure can be time consuming and daunting as workload demands resemble high performance computing compared with traditional data center applications. These workloads benefit from large amounts of data from gigabytes to petabytes including a more demanding metadata intensive workloads than traditional HPC systems were designed to serve.

Weka™ combined with Supermicro servers provides a stunning performance, protection, and data management story for Deep Learning, High-Performance Compute, and high-throughput low-latency storage workloads. WekaIO removes your computational storage bottlenecks by leveraging the power of NVMe and task-optimized servers, along with software designed for performance, scalability, and flexibility.



The Solution: a pre-configured stack that delivers the right price performance solution

The combined Supermicro and WekaIO™ solution integrates the latest Intel™ PCIe Gen4 servers; the latest high performance networking to create a tightly integrated and validated solution for the most challenging HPC and AI workloads.

New features and benefits include:

- Intel-based systems can now access data faster with twice the NVMe Storage & I/O utilizing PCIe 4.0
- Up to 40 cores per socket, higher instructions per clock, and two 512-bit FMA units
- Up to 20% power efficiency

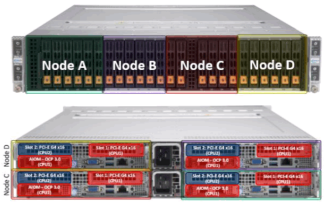
For more information, contact us at WEKA-PM@supermicro.com
<https://tinyurl.com/rfc2nzeb>



SUPERMICRO

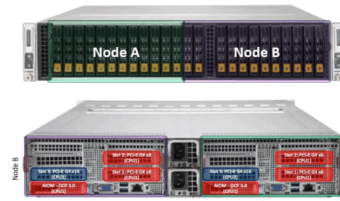
Supermicro is a global leader in high performance, green computing server technology and innovation. We provide our global customers with application-optimized servers and workstations customized with blade, storage, and GPU solutions. Our products offer proven reliability, superior design, and the industry's broadest array of product configurations, to fit all computational needs.

SYS-220BT-HNTR



2U 4-Node Big Twin Server (up to 6 NVMe per node)
 Best for: Entry-level to Mid-sized Deployments,
 requiring a minimum of 4U rack space

SYS-220BT-DNTR



2U 2-Node Big Twin Server (up to 12 NVMe per node)
 Best for: Mid-sized to Hyperscale Deployments,
 requiring a minimum of 6U rack space

| 2U 4Node Capacity | 290TB | 507TB | 1,089TB | 1,401TB | 1,991TB |
|----------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| SMC Orderable SKU | WEKAINTEL290 | WEKAINTEL507 | WEKAINTEL1089 | WEKAINTEL1401 | WEKAINTEL1991 |
| Super Server Model | SYS-220BT-HNTR | SYS-220BT-HNTR | SYS-220BT-HNTR | SYS-220BT-HNTR | SYS-220BT-HNTR |
| Rack Space | 2U/4Node 8 Nodes 4U | 2U/4Node 12 Nodes 6U | 2U/4Node 16 Nodes 8U | 2U/4Node 20 Nodes 10U | 2U/4Node 28 Nodes 14U |
| Processor | Intel ICX4314 2P | Intel ICX4314 2P | Intel ICX4314 2P | Intel ICX4314 2P | Intel ICX4314 2P |
| Memory/Server | 256GB | 256GB | 256GB | 256GB | 256GB |
| NVMe drives/Server | 4 | 4 | 6 | 6 | 6 |
| NVMe Drive Capacity | 15.36TB | 15.36TB | 15.36TB | 15.36TB | 15.36TB |
| Network Cards/Server | 200Gb/s ConnectX-6 Dual Port | 200Gb/s ConnectX-6 Dual Port | 200Gb/s ConnectX-6 Dual Port | 200Gb/s ConnectX-6 Dual Port | 200Gb/s ConnectX-6 Dual Port |
| Weka SW License Term | 3 Years, 24x7 | 3 Years, 24x7 | 3 Years, 24x7 | 3 Years, 24x7 | 3 Years, 24x7 |
| HW Support Included | 3 Years, 24x7 | 3 Years, 24x7 | 3 Years, 24x7 | 3 Years, 24x7 | 3 Years, 24x7 |
| Cluster Read IOPS | 8,000,000 | 12,000,000 | 16,000,000 | 20,000,000 | 28,000,000 |
| Cluster Write IOPS | 1,800,000 | 2,700,000 | 3,400,000 | 4,200,000 | 6,000,000 |
| Cluster Read BW | 185GB/s | 280GB/s | 375GB/s | 465GB/s | 650GB/s |
| Cluster Write BW | 48GB/s | 73GB/s | 95GB/s | 120GB/s | 170GB/s |

| 2U 2Nodes Capacity | 254TB | 507TB | 1,014TB | 1,521TB | 2,089TB |
|----------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| SMC Orderable SKU | WEKAINTEL254 | WEKAINTEL507 | WEKAINTEL1014 | WEKAINTEL1521 | WEKAINTEL2089 |
| Super Server Model | SYS-220BT-DNTR | SYS-220BT-DNTR | SYS-220BT-DNTR | SYS-220BT-DNTR | SYS-220BT-DNTR |
| Rack Space | 2U/2Node 6 Nodes 6U | 2U/2Node 6 Nodes 6U | 2U/2Node 12 Nodes 12U | 2U/2Node 12 Nodes 12U | 2U/2Node 18 Nodes 18U |
| Processor | Intel ICX4314 2P | Intel ICX4314 2P | Intel ICX4314 2P | Intel ICX4314 2P | Intel ICX4314 2P |
| Memory/Server | 256GB | 256GB | 256GB | 256GB | 256GB |
| NVMe drives/Server | 11 | 11 | 8 | 12 | 10 |
| NVMe Drive Capacity | 7.68TB | 15.36TB | 15.36TB | 15.36TB | 15.36TB |
| Network Cards/Server | 200Gb/s ConnectX-6 Dual Port | 200Gb/s ConnectX-6 Dual Port | 200Gb/s ConnectX-6 Dual Port | 200Gb/s ConnectX-6 Dual Port | 200Gb/s ConnectX-6 Dual Port |
| Weka SW License Term | 3 Years, 24x7 | 3 Years, 24x7 | 3 Years, 24x7 | 3 Years, 24x7 | 3 Years, 24x7 |
| HW Support Included | 3 Years, 24x7 | 3 Years, 24x7 | 3 Years, 24x7 | 3 Years, 24x7 | 3 Years, 24x7 |
| Cluster Read IOPS | 11,000,000 | 11,000,000 | 13,700,000 | 13,700,000 | 30,000,000 |
| Cluster Write IOPS | 1,700,000 | 1,700,000 | 2,000,000 | 3,000,000 | 5,000,000 |
| Cluster Read BW | 160GB/s | 160GB/s | 324GB/s | 324GB/s | 485GB/s |
| Cluster Write BW | 70GB/s | 70GB/s | 115GB/s | 160GB/s | 275GB/s |

* Bundle prices are based upon market conditions on the publication date of this data sheet
 * NBD Response and On-site Support are only available in selection locations

