

ENABLING 1.4 MILLION IOPS IN A 1U SERVER

Delivering Disruptive Technology into the Enterprise Server Market

Unleashing Ultimate Performance, Flexibility and Efficiency in Enterprise Servers

Enterprise servers are designed with traditional HDD storage form factors in mind. These designs are optimized for HDD technology developed over 30 years ago. In today's dynamic world of enterprise storage, solid state drives deliver new levels of performance for high OLTP applications. The evolution of different form factors for SSDs has begun: Empty PCIe slots have been adopted for SSD integration, now Viking enables ultimate system flexibility through the use of the DIMM socket.

Viking Modular SATADIMM is a 240-PIN DDR3 form factor solid state drive delivering the same performance as a 2.5 inch SSD at 75% of the footprint. Thus, greatly enhancing the number of SSDs that can be integrated within servers. Below is a technical comparison between 1U server configurations.

Dual-node 1U Server

1.4 Million IOPS

15.6TB

24 Solid State Drives
(with 8 x 2.5 inch drive bays)

Technical Comparison: Standard SuperMicro 1026TT-TF (Dual-node 1U Server)

	Standard (HDD)	SSD Optimized (Swapping HDD w/ SSD)	Viking Advantage (Ultimate Performance)
Drive units	8 drive bays (2.5 inch HDD)	8 drive bays (2.5 inch SSD)	8 drive bays (2.5 inch SSD) 16 SATADIMMs (DDR3 sockets)
Performance	150 IOPS per HDD	60,000 IOPS per SSD	60,000 IOPS per SSD
Capacity	1TB per HDD	480GB per SSD	480GB per SSD
Total IOPS	1200	480,000	1.4 Million
Total Capacity	8TB	3.8TB	11.5TB



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Ultimate Flexibility & Efficiency

960,000

15.6TB

*Swapping out SSD drive bays w/ HDD