

Netlist Introduces New Family Of High Performance Non-volatile RAM For Enterprise Storage And Data Centers

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IRVINE, Calif., April 6, 2015 /PRNewswire/ -- Netlist, Inc. (NASDAQ: NLST), a leading provider of high performance memory storage solutions for the cloud computing and storage markets, announced the introduction of its [EXPRESSvault™ EV3 PCI Express® \(PCIe®\) 3.0 Non-volatile RAM \(NVRAM\)](#), the newest product in its NVvault family. Netlist, a member of the Storage Networking Industry Association (SNIA), will demonstrate EXPRESSvault's bandwidth and I/Os per second (IOPS) at the SNIA Data Storage Innovation Conference taking place this week in Santa Clara, CA.



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Netlist's EXPRESSvault EV3 family is a new ultra-fast storage class memory tier designed to accelerate mission critical applications in scale-out storage, all-flash arrays, database systems, distributed file systems, and server-side caching. The product can be used as both a block storage device for efficient DMA transactions and a persistent memory extension mapped directly to the host. In addition, the EXPRESSvault EV3 can be applied to storage systems using inline deduplication and compression, encryption, indexing and mapping.

"We are proud to debut this new EXPRESSvault EV3 family which provides plug-and-play PCIe connectivity and builds upon our position as an innovator in the NVRAM marketplace," said Christopher Lopes, VP of Worldwide Sales at Netlist. "We are delivering a superior solution that meets the high performance and endurance demands of enterprise storage and data center applications for the cloud. EXPRESSvault EV3 architecture ensures data in memory is immediately and reliably backed up without the use of expensive, inefficient UPS or battery technologies. Because this solution is independent of the memory bus technology and works in both DDR3 and DDR4 based hardware, it is easy to integrate and take to production."

EXPRESSvault EV3 is the latest enterprise class product from Netlist, based on the industry-standard PCIe 3.0 interface to enable plug-and-play PCIe connectivity. It combines the high speed and endurance of DRAM with the non-volatility of MLC NAND flash to deliver sustainable performance of more than 400K I/Os per second (IOPS) with sub-microsecond latency—performance far superior than today's fastest Solid State Drives (SSD). EXPRESSvault is an ideal match for server and storage solutions in next-generation data centers for cloud computing that integrate IBM POWER or Intel Haswell/Broadwell CPUs and Serial Attached SCSI (SAS) and PCI Express SSD products.

Key competitive attributes of the EXPRESSvault EV3 include:

- Virtually unlimited write endurance
- End to end Data coverage
- Fast Backup times: 4GB ~ 24 seconds, 8GB ~ 48 seconds, 16GB ~ 96 seconds
- Supercap rating: 5 year @ 50C ambient, UL Certification
- Supercap charge time – less than 4 min
- Extensive Health Monitoring, Error reporting with Predictive failure warnings, and Backup, restore, power, NAND life status
- Data Retention – 3 months

The EXPRESSvault EV3 is available in 4GB, 8GB and 16GB capacities and in production quantities as early as June 2015. Additional EXPRESSvault information and samples can be obtained by visiting www.netlist.com.

Density	4GB	8GB	16GB
Part Number	EV3-31MKT1NL-0001100	EV3-41HBT1NL-0001100	EV3-51HBT1NL-0001100

Netlist will be at the Data Storage Innovation Conference taking place at the Santa Clara Hyatt Regency on April 7- 9, 2015. Netlist can be located at Table T-6. The EXPRESSvault demonstration will run on a Dell R630 based on Intel Haswell CPU and show the performance of NVRAM at >4GB/s with low latency.

About Netlist:

Netlist, Inc. designs and manufactures high-performance, logic-based memory subsystems for server and storage applications for cloud computing. Netlist's flagship products include NVvault® and EXPRESSvault™, a family of hybrid memory products that significantly accelerate system performance and provide mission critical fault tolerance, as well as HyperVault, its next generation hybrid memory solution which is under development and greatly expands the performance and capacity of DRAM channel storage. The Company's product offering also includes HyperCloud®, a patented memory technology that breaks traditional performance barriers, and a broad portfolio of industrial Flash and specialty memory subsystems including VLP (very low profile) DIMMs and Planar-X RDIMMs. Netlist has steadily invested in and grown its worldwide IP portfolio, which now includes 88 issued and pending patents in the areas of high performance memory and hybrid memory technologies.

Netlist develops technology solutions for customer applications in which high-speed, high-capacity, small form factor and efficient heat dissipation are key requirements for system memory. These customers include OEMs and hyperscale datacenter operators that design and build servers, storage systems and high-performance computing clusters, engineering workstations and

telecommunications equipment. Founded in 2000, Netlist is headquartered in Irvine, CA with manufacturing facilities in Suzhou, People's Republic of China. Learn more at www.netlist.com.

Safe Harbor Statement:

This news release contains forward-looking statements regarding future events and the future performance of Netlist. These forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those expected or projected. These risks and uncertainties include, but are not limited to, risks associated with the launch and commercial success of our products, programs and technologies; the success of product partnerships; continuing development, qualification and volume production of Hypervault™, EXPRESSvault™, NVvault®, HyperCloud® and VLP Planar-X RDIMM; the timing and magnitude of the decrease in sales to our key customer; our ability to leverage our NVvault® and EXPRESSvault™ technology in a more diverse customer base; the rapidly-changing nature of technology; risks associated with intellectual property, including risks associated with the inherent uncertainty of the litigation process, and we can provide no assurance that our efforts to mitigate the effects of the jury verdict will be successful, patent infringement litigation against us as well as the costs and unpredictability of litigation over infringement of our intellectual property and the possibility of our patents being reexamined by the United States Patent and Trademark office; volatility in the pricing of DRAM ICs and NAND; changes in and uncertainty of customer acceptance of, and demand for, our existing products and products under development, including uncertainty of and/or delays in product orders and product qualifications; delays in the Company's and its customers' product releases and development; introductions of new products by competitors; changes in end-user demand for technology solutions; the Company's ability to attract and retain skilled personnel; the Company's reliance on suppliers of critical components and vendors in the supply chain; fluctuations in the market price of critical components; evolving industry standards; and the political and regulatory environment in the People's Republic of China. Other risks and uncertainties are described in the Company's annual report on Form 10-K filed on March 27, 2015, and subsequent filings with the U.S. Securities and Exchange Commission made by the Company from time to time. Except as required by law, Netlist undertakes no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

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To view the original version on PR Newswire, visit:<http://www.prnewswire.com/news-releases/netlist-introduces-new-family-of-high-performance-non-volatile-ram-for-enterprise-storage-and-data-centers-300061223.html>

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