

# Netlist Extends Cache-to-flash Market Leadership With Next Generation Nvvault™ DDR3 NVDIMM Module

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NVvault DDR3 enables high capacity scalability and increases I/O performance at DDR3 speeds for cache data protection architectures while eliminating the need for batteries

IRVINE, Calif., Aug. 9, 2011 /PRNewswire/ -- [Netlist, Inc.](#) (Nasdaq: NLST), a designer and manufacturer of high-performance memory subsystems, today introduced its next-generation non-volatile dual inline memory module (NVDIMM), NVvault™ DDR3. Extending its market leadership built upon its NVvault and EXPRESSvault™ DDR2 product lines, NVvault DDR3 delivers 1333MT/s throughput rates, 2GB and 4GB capacities, multi-DIMM per channel support and additional feature set enhancements.

NVvault DDR3 modules utilize Netlist's proprietary Vault cache-to-flash controller and works in conjunction with general purpose CPUs, RAID On Chip ICs (ROCs), and other devices with DDR3 a standard interface. By combining the high performance of DDR3 DRAM with the non-volatility of flash, NVvault addresses the performance and data preservation requirements found in Storage Virtualization, RAID, and other cache protection and data logging applications requiring high throughput. In addition, NVvault eliminates batteries in traditional data preservation schemes by utilizing an ultra-capacitor for backup power. This provides a greater window for data recovery, extending beyond the 24 hour limitation of some battery designs. This extended recovery time is becoming increasingly important for those datacenters vulnerable to hurricanes, floods, tsunamis, and other natural disasters which can cripple a datacenter for days and even weeks.

"Our Vault portfolio of cache-to-flash non-volatile DIMM products is the market-leading solution chosen by storage and server equipment OEMs," said Steve McClure, vice president of worldwide sales and marketing of Netlist. "NVvault DDR3 extends this leadership with higher memory performance, greater memory capacity, and more advanced features targeted to deliver the industry's most advanced cache data protection solution."

NVvault DDR3 is JEDEC-compatible with a standard DDR3 RDIMM interface supporting up to 3 DIMMs per channel enabling a scalable high capacity cache protection solution. The module features infield FPGA upgradability with programmable memory backup size, on-line module statistics for flash endurance, power module status, and hardware/software interrupt support.

Netlist is currently sampling NVvault DDR3 modules. For additional information on Netlist's NVvault DDR3, please visit, <http://www.netlist.com/vault>.

## **About Netlist:**

Netlist, Inc. designs and manufactures a wide variety of high-performance, logic-based memory subsystems for global datacenter and high-performance computing and communications markets. Netlist's flagship products include HyperCloud™, a memory module that breaks traditional memory barriers; the NVvault™ family of products including NVvault™ battery-free, a flash memory-based subsystem that enables data retention for weeks following a disaster, and EXPRESSvault™, a PCI Express backup and recovery solution for cache data protection; and a robust portfolio of high

performance and specialty DIMMs including HyperStream, a low latency memory module, and the 16GB, 4Rank, very low profile Planar-X RDIMM, which helps reduce power consumption in servers using the Company's patented Planar-X technology.

The memory technologies are developed for applications in which high-speed, high-capacity memory, enhanced functionality, small form factor and heat dissipation are key requirements. These applications include tower servers, rack-mounted servers, blade servers, 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](http://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, continuing development, qualification and volume production of EXPRESSvault™, NVvault™, HyperCloud™, HyperStream and VLP Planar-X RDIMM; the rapidly-changing nature of technology; risks associated with intellectual property, including the costs and unpredictability of litigation over infringement of our intellectual property and the possibility of the Company's patents being re-examined 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; 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, dated March 3, 2011, 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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