



FOR IMMEDIATE RELEASE

NUVENTIX UNVEILS REVOLUTIONARY AIR COOLING SYNJET TECHNOLOGY

*Ultra Reliable and Thermally Effective Active Cooling Technology
Now Available for Product Designers*

San Diego, CA – Oct. 24, 2007 – From LEDs 2007, Nuventix today formally introduced its revolutionary fanless air cooling SynJet™ technology. The patented synthetic jet cooling approach solves active thermal management problems in a completely new way, providing the most reliable, effective and flexible cooling solutions for product designers across a variety of industries, including LED lighting, telecommunications and consumer electronics. SynJet high reliability cooling solutions enable new electronic designs by allowing designers to focus on functionality, not thermals.

“Product designers are under constant pressure to solve increasingly tougher thermal problems within smaller spaces and constrained budgets. Conventional cooling technology doesn’t offer the flexibility and effectiveness SynJet coolers can,” said Jim Balthazar, president and CEO, Nuventix. “As an example, SynJet technology is perfect for LED cooling because of its high reliability, low power consumption and quiet operation.”

How SynJet Technology Works

The SynJet module creates turbulent, pulsated air-jets that can be directed precisely to locations where thermal management is needed for industrial spot or chip cooling requiring high reliability and flexible form-factor implementations.

The vortex-dominated SynJet flow enhances small-scale mixing near the heated surfaces to yield higher effective heat transfer at low-volume flow rates compared to conventional air movers. The SynJet flow is created using Nuventix’ patented actuator technology and proprietary fluidic packaging expertise.

The system wide heat removal takes advantage of the ejector effect inherent to high-momentum jet flows. As it operates, the SynJet module expels high momentum pulses of air. Each pulse of

air entrains ambient air in its wake. The result is highly turbulent, high-heat transfer-coefficient air flows located directly where they are needed inside a product providing system and spot level cooling.

“Nuventix’ SynJet technology is set to offer several unique benefits, from directional and spot cooling, to lower power consumption and near silent operation,” said Susie Inouye, research director for market research firm Databeans. “As designers continue to push the limits of CE and LED products, thermal management becomes increasingly more important for the lighting, telecom and home entertainment product markets – innovations in this field are a must for growth in the industry as a whole.”

Key Benefits

- *Increased thermal efficiency:* SynJet technology makes it possible to remove more heat with less air by using the air already present in the system to cool – no additional air must be plumbed in as with conventional jets. Synthetic jet systems are 50% more thermally efficient in removing heat from the source compared to laminar flow normally associated with active cooling air flow.
- *High reliability cooling out paces even the most reliable fan:* Conventional air movers, like fans and blowers, are the lowest reliable component in the system; this is not the case with SynJet modules, which provide 10x the reliability of fans.
- *Low power consumption:* SynJet modules can cool the same thermal load as a conventional fan with a fraction of the power needed.
- *Low audible noise:* With frictionless parts, SynJet modules may be designed for effectively silent operation.

How SynJet Helps the LED Industry

The LED market, stand-alone lighting as well as for use in LCDs, is proliferating at the rate of 15-20% per year and is expected to reach \$7 billion in just three years. This growth will be attained through new uses of LEDs, many of which will require active cooling. SynJet modules are the only active cooling option for manufacturers of LEDs because their reliability matches – and exceeds – that of the LEDs themselves. SynJet modules also provide spot cooling and chip cooling in form factors which fit those of LEDs. Read more about Nuventix’ products for the LED industry in today’s press release titled “Nuventix Introduces Two New LED Cooling Modules for LED Thermal Management.”

Pricing and Availability

SynJet modules are available today. Pricing is based on volume and customization.

At LEDs 2007

To see SynJet technology in action, stop by booth #52 at the LEDs show taking place in San Diego, CA, October 24 – 26. Additionally, Mick Wilcox, marketing manager, will speak on the topic of Reliable LED Airside Thermal Management with Synthetic Jets in the Main Session Hall on Friday, October 26, at 8:40 a.m.

About Nuventix

Nuventix is revolutionizing active thermal management of consumer electronics, LED lighting, medical, telecommunications, automotive and other electronics with patented, highly adaptable, quiet and reliable cooling devices that efficiently – and directly – dissipate heat from any surface. The patented SynJet technology enables the most reliable and flexible air cooling solutions available today. The Austin, TX-based company is venture-backed and led by an experienced team of senior executives with a breadth of experience building and leading thermal and startup companies to success. More information can be found at www.nuventix.com.

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