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AGIGA Tech Introduces Industry's Highest-Density Battery-Free Non-Volatile RAM System for Applications Needing Critical Data Back-Up Last Updated: 09/28/2009

New AGIGARAM™ CAPRI Family with Up to a 2 Gigabyte Density Offers Turnkey DDR2 NV RAM System for Storage Systems, Gaming Systems, Industrial/Embedded Systems and More

POWAY, Calif., September 29, 2009 – AGIGA Tech Inc., a subsidiary of Cypress Semiconductor Corp. (NYSE: CY), today introduced the market's highest-density, high-speed non-volatile RAM system. The AGIGARAM™ non-volatile system's (NVS) new CAPRI family delivers densities between 256 megabytes (2048 megabits) and 2 gigabytes (16 gigabits). The easy-to-use, turnkey family leverages a DDR2 SDRAM interface to deliver speeds up to 800 MHz with peak transfer rates equivalent to DRAMs. The CAPRI family enables many valuable system features such as zero standby power, power interruption immunity, instant on/recovery, write caching/posting, data logging, service/maintenance processing, journaling, unified memory architectures, and UPS replacement/redundancy. The products provide all these features while preserving mission-critical data.

The AGIGARAM is ideal for a wide range of applications, including storage, networking, communications, industrial computing and controls, medical equipment, gaming systems, ATMs and point-of-sale terminals, printers, scanners, copiers, automotive and military systems. More information on the AGIGARAM is available at www.agigatech.com.

"The CAPRI family brings AGIGARAM's unique high-speed, high-density non-volatile RAM technology to higher-end applications in the networking, storage, industrial and embedded markets," said Ron Sartore, CEO of AGIGA Tech. "Our flexible CAPRI products come in multiple form factors and host interfaces, enabling rapid time-to-market and high performance."

Until now, high-speed, non-volatile memory choices have been limited, especially when the performance of a RAM is desired. Complementing the nvSRAM offerings from Cypress, the AGIGARAM system scales and extends nonvolatile solutions to much higher densities. The next best high-density alternative, battery-backed memories, can offer high speeds, but are subject to numerous problems, such as hazardous material issues, increased design complexity, long charge times, limited operating life, and a high total cost of ownership.

The AGIGARAM system solves these problems with a novel use of a battery free power sub-system, teamed with high-speed synchronous DRAM, NAND Flash, intelligent power management and a proprietary system controller. During normal operation the AGIGARAM functions exactly like a synchronous DRAM (SDRAM). When power is lost, however, it automatically saves the data to NAND Flash using the energy stored in the power subsystem. When power is restored, the data is transferred back into the SDRAM. This functionality can be used for power interruption/loss immunity, instant-on recovery, write caching and posting, data logging and journaling, and service and maintenance processing.

CAPRI Product Features

Targeted at higher end storage, industrial, networking, and communications applications:

- 256-MB, 512-MB, 1-GB and 2-GB densities
- 64/72-bit DDR2 SDRAM interface with high speeds of 533 MHz, 667 MHz and 800 MHz
- 6,400 MB/sec peak transfers
- I2C command/control bus
- Form factor: 244-pin mini-RDIMM, 240-pin RDIMM and custom form factors
- 0-60 degrees C operating range, with additional ranges available
- 5-year and 10-year operating life options
- Integrated battery-free power pack

Availability and Photo

The AGIGARAM CAPRI product is sampling now, with production expected in Q4 2009. The PLUM PCI-CAPRI Evaluation kit is on sale now and can be ordered from the AGIGA Tech website. Complete documentation, part numbers, product briefs, white papers, and datasheets are available at the AGIGA Tech website. A high-resolution photo of the AGIGARAM CAPRI is available at www.cypress.com/go/pr/agigaramcapriphoto.

About AGIGA Tech

Headquartered in Poway, California with a product development and test center in Chengdu, China, AGIGA Tech was founded in February 2008 as a subsidiary of Cypress Semiconductor Corp. (NYSE:CY). AGIGA Tech's AGIGARAM products are the world's first high-speed, high-density RAMs that do not need environmentally-unfriendly batteries. The company's products are available worldwide through the Cypress sales force and its distributor partners. More information on the company is available at www.agigatech.com.

About Cypress

Cypress delivers high-performance, mixed-signal, programmable solutions that provide customers with rapid time-to-market and exceptional system value. Cypress offerings include the PSoC® programmable system-on-chip, USB controllers, general-purpose programmable clocks and memories. Cypress also offers wired and wireless connectivity technologies ranging from its CyFi™ Low-Power RF solution, to West Bridge® and EZ-USB® FX2LP controllers that enhance connectivity and performance in multimedia handsets. Cypress serves numerous markets including consumer, computation, data communications, automotive, and industrial. Cypress trades on the NYSE under the ticker symbol CY. Visit Cypress online at www.cypress.com.

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