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Aclara® Selects Cypress Serial nvSRAMs for Use in AMI Modules

New SPI nvSRAM Delivers Speed and Board Space Savings

SAN JOSE, Calif.--(BUSINESS WIRE)-- Cypress Semiconductor Corp. (Nasdaq: CY) today announced that Aclara® Technologies has selected Cypress's serial non-volatile Static Random Access Memories (nvSRAMs) with an SPI interface for the new UMT-R residential utility meter. The nvSRAMs provide the UMT-R with high speed, fail-safe memory that meets the reliability specifications for which Aclara's solutions are known.

Cypress introduced the new I²C and SPI nvSRAMs in March of this year. The new devices, available in full production in densities from 64-Kbits to 2-Mbits, are popular in metering, industrial and automotive applications. They deliver operating frequencies up to 104 MHz for the SPI devices (3.4 MHz for the I²C products) and are also offered with an optional integrated Real-Time Clock (RTC) that enables time-stamping of critical data to be backed-up. No battery back-up is needed for these parts.

Cypress's nvSRAMs are manufactured on its S8™ 0.13-micron SONOS (Silicon Oxide Nitride Oxide Silicon) embedded non-volatile memory technology, enabling superior reliability and improved performance. nvSRAMs are ideal solutions for applications requiring absolute non-volatile data security such as Electronic Smart Meters, PLCs, Motor Drives, Electronic Data Recorders in Automobiles, RAID systems, SSD systems, Internet Router/Switches, consumer, Medical, and Data Communication Systems.

"Cypress's Serial nvSRAMs delivered the performance and reliability we required in the UMT-R," said Aclara's Mike Ransick. "The new SPI interface simplified the design process, speeding time to market."

"We're pleased to see a leader such as Aclara adopt the new Serial nvSRAMs," said Babak Taheri, Vice President of the Non-Volatile Products Business Unit at Cypress. "With the devices in full production, we have engaged with other industry leaders in their new designs."

The Serial nvSRAM family includes 2-Mbit, 1-Mbit, 512-Kbit, 256-Kbit and 64-Kbit devices in multiple configurations. These devices feature superior performance with an industry-first SPI operating frequency up to 104MHz, SPI Modes 0 and 3, infinite READ/WRITE and RECALL cycles with 20 years of data retention. These devices are available in industry-standard small footprint 8-SOIC and 16-SOIC packages and both the wafer and backend parts can be manufactured at multiple sites to reduce supply risk. For more information about Cypress's portfolio of nvSRAM products, visit www.cypress.com/go/NVM.

A leader in SONOS process technology, Cypress is using the S8 technology in next generation PSoC® mixed-signal arrays, programmable clocks and other products. SONOS is compatible with standard CMOS technologies and offers numerous advantages including high endurance, low power, and radiation hardness. Cypress's S8™ 0.13-micron SONOS technology is qualified to run in its internal fab and in multiple foundry partner locations. SONOS technology provides a superior solution in terms of scalability and manufacturability compared to other magnetic or ferroelectric based non-volatile memory technologies. Cypress has shipped over 1-Billion PSoC® units that employ the same SONOS process technology utilized in the nvSRAMs.

About Cypress nvSRAMs

Cypress's nvSRAMs use charge stored on an external capacitor instead of a battery, making the devices compatible with standard PCB assembly processes. Cypress's nvSRAMs are ROHS-compliant and directly replace SRAM, battery-backed SRAM (BBSRAM) and EEPROM devices, offering fast non-volatile data storage. Data transfers from the SRAM to the device's non-volatile elements take place automatically at power down. On power up, data is restored to the SRAM from the non-volatile memory. In Metering, Industrial, Automotive and RAID applications, nvSRAMs offer high-speed data transfer while ensuring data integrity in case of power outages, without the need for a battery.

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 flagship PSoC® programmable system-on-chip families and derivatives such as PowerPSoC® solutions for high-voltage and LED lighting applications, CapSense® touch sensing and TrueTouch™ solutions for touchscreens. Cypress is the world leader in USB controllers, including the high-performance West Bridge® solution that enhances connectivity and performance in multimedia handsets. Cypress is also a leader in high-performance memories and programmable timing devices. Cypress serves numerous markets including consumer, mobile handsets, computation, data communications, automotive, industrial and military. Cypress trades on the Nasdaq Global Select Market under the ticker symbol CY. Visit Cypress online at www.cypress.com.

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