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## Cypress's PSoC® 3 Device Powers Hot New GuitarJack Model 2 From Sonoma Wireworks

*PSoC 3 Delivers High Quality, Digital Audio Interface with iOS Devices; Handles Proprietary MFi Protocol*

SAN JOSE, Calif.--(BUSINESS WIRE)-- Cypress Semiconductor Corp. (Nasdaq:CY) today announced that Sonoma Wire Works has selected the PSoC® 3 programmable system-on-chip for its new GuitarJack Model 2. The GuitarJack Model 2 is a digital audio interface accessory product that connects a musical instrument, microphone, or audio hardware with iPod touch, iPhone or iPad. The PSoC 3 device in the GuitarJack seamlessly manages the digital audio interface and handles Apple's proprietary MFi protocol to communicate with iOS devices.

GuitarJack Model 2 is optimally designed to work with Sonoma Wire Works iOS apps including GuitarTone, FourTrack, StudioTrack, and TaylorEQ, as well as Apple's GarageBand. It streams digital audio out of and into Apple's latest iOS devices, including iPad 2, iPad, iPhone 4, and iPod touch (2nd, 3rd, and 4th generation). It offers stereo recording and simultaneous voice and instrument recording via Apple's proprietary connector. Since GuitarJack Model 2 is fully synchronous between iOS and PSoC 3, it maintains high quality audio streaming with no dropped audio packets. It can be powered directly by the iOS device and does not need its own power supply or batteries. More information is available at <http://www.sonomawireworks.com/guitarjack>.

The PSoC 3 device manages the interface between GuitarJack Model 2 and any iOS device via Apple's proprietary dock connector. With Cypress's patent-pending clock synchronization and recovery scheme, PSoC 3 also delivers the highest quality digital audio with minimal external components while supporting multiple audio sample rates. Details on Cypress's MFi (Made for iPod, iPhone and iPad) solution offering are available at [www.cypress.com/go/MFi](http://www.cypress.com/go/MFi). More information about Cypress's clock synchronization and recovery scheme is available at <http://www.cypress.com/?docID=25374>.

"It's an exciting time for the music creation and instruments market," said Leon Tan, marketing manager for Cypress's MFi solutions. "With a large installed base of iOS devices in the market today, and growing at an unprecedented rate, Sonoma Wire Works is able to quickly capitalize on that with its unique ability to create high-quality hardware and software audio products that the music industry demands. We're excited that the PSoC 3 technology advantages are well suited for this market."

"PSoC 3's unique, patent-pending technology enables digitally streaming audio between iOS devices and connected accessories," said Gahan Richardson, vice president of PSoC platform products for Cypress. "This enables Sonoma Wire Works to deliver an exciting, versatile product with great sound for music enthusiasts."

"PSoC 3's low power; flexible architecture; and high-quality USB audio solution helped Sonoma Wire Works upgrade GuitarJack from its predecessor (Model 1 to Model 2)," said Douglas Wright, Founder and President of Sonoma Wire Works. "Together with GuitarTone, Model 2 provides the complete package for musicians to create music here, there and everywhere."

### **PSoC -- Because Change Happens**

PSoC devices employ a highly configurable system-on-chip architecture for embedded control design, offering a flash-based equivalent of a field-programmable ASIC without lead-time or NRE penalties. PSoC devices integrate configurable analog and digital circuits, controlled by an on-chip microcontroller, providing both enhanced design revision capability and component count savings. A single PSoC device can integrate as many as 100 peripheral functions saving customers design time, board space and power consumption while improving system quality and reducing system cost.

The new PSoC 3 and PSoC 5 architectures include high-precision programmable analog capability (up to 20-bit resolution for an Analog to Digital Converter) and expanded programmable digital resources integrated with powerful, industry-standard MCU cores and ample memory and communications peripherals. PSoC 3 devices are based on a high-performance 8-bit 8051 processor, while PSoC 5 devices include a powerful 32-bit ARM Cortex-M3 processor. The products provide designers with a seamless, programmable design platform, enabling easy migration from 8 to 32 bits. The robust features of these new solutions dramatically expand the applications and markets that PSoC can address, including automotive, portable medical, industrial and many more. The PSoC 1 family is based on a cost-optimized 8-bit M8C core.

More information about PSoC products is available at [www.cypress.com/psoc](http://www.cypress.com/psoc) and free online training is at [www.cypress.com/psoctraining](http://www.cypress.com/psoctraining).

### **About Sonoma Wire Works**

Incorporated in 2003 and headquartered in Los Altos, California, Sonoma Wire Works develops products and services that help musicians enjoy playing, recording and sharing music. Sonoma's flagship product is RiffWorks™ guitar recording software. FourTrack™, InstantDrummer™, StudioTrack™ and GuitarTone™ iOS apps, and the GuitarJack™ iOS audio interface are also developed by Sonoma. Drum products by Sonoma include DrumCore® and KitCore™, as well as the Discrete Drums™ multitrack drum library. Visit [www.sonomawireworks.com](http://www.sonomawireworks.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 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](http://www.cypress.com).

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