



NEWS

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ESS Technology Announces Phoenix III CD SoC *World's Most Highly Integrated CD Mini Component Processor*

FREMONT, Calif., APRIL 25, 2013 — ESS Technology, a leading provider of high performance audio/video solutions, today announces the Phoenix III CD SoC as the latest member of its DVD/CD Home Theater product line, combining the highly acclaimed SABRE DAC/ADC technology with all CD front-end and back-end functions, as well as system controller on the same chip, delivering the best sound, highest integration and lowest bill of materials to the CD Mini Component market.

The Phoenix III CD SoC contains all the necessary processors and peripherals for full-featured Mini Component applications: a CD front-end and servo controller, a 32-bit RISC processor for the operating system, a 64-bit media processor for audio decoding, post-processing, lip-synchronization and sound effects such as virtual surround and bass enhancement, a hardware parametric equalizer (PEQ) for speaker equalization, an automatic gain limiter (AGL) for anti-clipping control, a user-programmable 32-bit Audio Coprocessor for custom sound algorithms, a 2.1-channel patented HyperStream™ Class D or D/A converter for driving digital or analog power stages, a 4-input HyperStream™ stereo ADC for connection to line input sources, a MIC ADC for Karaoke microphone input, a 2-input SPDIF/ARC receiver for connection to coaxial, optical, HDMI and ARC input sources, and a full-speed USB host controller for firmware upgrade or music playback from thumb drives or iPod.

Additionally, The Phoenix III CD eliminates the external microcontroller by integrating an IR receiver, 3 key ADCs, a VFD controller interface, timers, GPIOs, 2 I2C master controllers, 2 UART

controllers, and advanced power management to support remote control, VFD display, buttons/LEDs, software real-time clock, system monitoring/control and extremely low power consumption in standby mode.

To enable quick time-to-market for customer product development, the Phoenix III CD SoC comes with a reference design complete with demonstration code, software development tools and a PC-based audio tuning tool for sound profile customization.

The Phoenix III CD SoC is sampling now in 176-LQFP package. Sample chips, reference design and volume price information are available from ESS or your local ESS distributor and representatives.

About ESS Technology

ESS Technology, Inc. designs and markets high-performance audio and video products for the consumer market.

ESS's products include the SABRE/SABRE32 series of Hyperstream™ audio DACs and ADCs, the Phoenix-III series of HD-Enhanced DVD Home Theater SoC, Crescendo series of Sound Bar SoC, Radix CMOS TV tuners, 1080p Video Up-converter, and the DMPX Media Processor.

ESS's SABRE³² audio DAC series is the world's highest performance 32-bit audio D/A converter solution, built upon the original SABRE audio DAC series first introduced in 2008. The SABRE³² and SABRE audio DACs have been designed into the world's most prestigious consumer, audiophile and professional equipments, including Blu-ray players, CD/SACD players, A/V preamps and digital audio workstations.

ESS is headquartered in Fremont, California, and has R&D, sales, and technical support offices worldwide. ESS Technology's web site address is: <http://www.esstech.com>.