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AK4425/26 Press Release

Single-supply audio DAC's feature ground-referenced 2Vrms outputs

San Jose, CA May 14, 2009 — AKM Semiconductor, a leading supplier of audio ICs for professional and consumer markets, today launched the AK4425 and AK4426, single-supply stereo audio 2Vrms output DAC's with integrated charge pumps. These devices are the newest products in the AKM Audio4home™ family, and they are ideal for consumer audio applications including set-top boxes, televisions, DVD/BD players and recorders, and A/V receivers. They are enhanced versions of the AK4420, adding a serial control interface for volume control, interface format selection, and de-emphasis control. High dynamic performance is achieved, providing 106dB dynamic range and -91dN THD+N.

The AK4425 and AK4426 operate of a +5V nominal power supply. The devices contain an integrated charge pump, which supplies the negative rail for the output buffer. Since the output buffer operates off of an internal dual-rail supply, the output signal is ground-referenced, and audible pop noise is suppressed without any external mute circuits on power-up or when clocks are stopped. The output signal is 2Vrms, centered around ground.

The stereo audio DAC accepts 24-bit data at sampling rates up to 192kHz. A digital de-emphasis filter and soft mute circuit are integrated. An automatic power-on reset circuit eliminates the need to reset the DAC on power-up or after the clocks are stopped. The DAC includes a switched-capacitor filter (SCF), greatly improving audio performance in systems with high clock jitter. The output buffer features a continuous-time filter (CTF). With these two internal filters, only a simple first-order RC external filter is recommended. The AK4425 can be controlled by registers through a 3-wire interface and the AK4426 can be controlled through an I²C interface.

The AK4425/6 is housed in a space-saving 16-pin TSSOP package. Evaluation boards and samples are available now. For more information, contact AKM Semiconductor at 888-256-7364, or visit www.akm.com.

About AKM Semiconductor

AKM Semiconductor (AKMS) is a wholly owned subsidiary of Asahi Kasei Microdevices Corporation, Tokyo, Japan. AKMS, located in San Jose, California, offers sales, marketing and design support for North and South American customers. AKM designs and manufactures CMOS mixed signal integrated circuits for applications including audio, multimedia, data storage, and telecommunications. North American headquarters are located at 1731 Technology Drive, Suite 500, San Jose, CA 95110.