

INFORMATION:

AKM Semiconductor

(888) 256-7364

e-mail: icinfo@akm.com



AK4390 Press Release

AKM Introduces 32-bit High Performance Audio DAC with Ultra-Low Latency

San Jose, CA Dec 9, 2008— AKM Semiconductor has launched the AK4390, a high performance 32-bit stereo DAC. It is the newest member of the Audio4pro™ product family. Based on the new high quality sound architecture of the AK4397, the AK4390 has an advanced architecture that enables higher quality sound for professional and high-end audio applications. A minimum-phase FIR 32-bit short delay filter is able to accurately reproduce the original recorded sound with an impulse response without pre-echo. This filter architecture provides a realistic image of the original audio source, and it features an ultra-low latency of seven samples (7/fs), making the AK4390 ideal for live sound applications.

The 32-bit digital data processing block provides a full 32-bit audio data interface, a minimum phase FIR digital filter and an advanced delta-sigma modulator. High accuracy D/A conversion of 32-bit audio signals is performed, and an innovative design utilizing a symmetrical layout for the left and right channels is realized. The fully symmetrical layout of the analog block ensures that the signal from the digital processing block has the shortest path possible to the analog block to avoid noise coupling for improved sound quality.

The AK4390 supports sampling rates from 30kHz to 216kHz, fully differential analog outputs, a digital attenuator, de-emphasis filters, soft mute and zero detect functions. Very high dynamic performance is achieved, with a dynamic range of 120dB and THD+N of -103dB. The device operates off of a single +5V power supply. The AK4390 is ideal for professional audio equipment including both studio and live sound recording consoles, digital mixers, sound reinforcement, sound cards, USB and Firewire audio interface gear, and outboard D/A converters. The AK4390 is available in a space-saving 30-pin VSOP package.

Evaluation boards and samples are available now. For more information or editorial contacts about this product, call AKM toll-free at (888) 256-7364.

The datasheet may be downloaded at:

<http://www.akm.com/datasheets/ak4390.pdf>

About AKM Semiconductor

AKM Semiconductor (AKMS) is a wholly owned subsidiary of Asahi Kasei EMD 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.

About AKM™

AKM™ is the brand name of Asahi Kasei EMD Corporation's integrated circuits.

About Audio4pro™

The Audio4pro™ brand identifies AKM products that are designed for pro audio equipments, including mixing consoles, electronic musical instruments, and sound effectors meeting the highest sound quality standards of recording studios. The Audio4pro™ brand product range provides world-leading performance with high quality sound.