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AK7835 Press Release

Mono Class-D Dynamic Speaker Driver Delivers 2.4W into 4Ω

San Jose, CA July 8, 2009 — AKM Semiconductor today introduced the AK7835, a mono Class-D dynamic speaker driver. Output power with a 5V supply is 1.55W into an 8Ω load, with an optional version (AK7835x4) delivering 2.4W into 4Ω. Class-D operation ensures high operating efficiency and low power consumption compared to conventional Class-AB solutions. The AK7835 utilizes a filter-free architecture, saving board space and reducing system cost. The device has very low EMI, ensuring fast time-to-market for portable and RF applications, including mobile phones, portable multimedia players, and handheld gaming consoles.

Power supply range for the AK7835 is 2.5V to 5.5V, consuming just 1.3mA quiescent current, for a very low 4.3mW at 3.3V nominal power supply. Shutdown current consumption is only 0.1μA. The analog inputs can be either single-ended or differential, and the architecture is pop-free at either power-up or power-down.

The AK7835 is housed in a space-saving 9-pin chip-scale package, or a 10-pin TMSOP package. Evaluation boards and samples are available now. For more information, contact AKM Semiconductor at 888-256-7364, or visit www.akm.com.

Gain and package options:

AK7835B5	Gain = 15dB	9-pin WLCSP (1.5mm × 1.5mm)
AK7835S5	Gain = 15dB	10-pin TMSOP (3mm × 4mm)
AK7845B4	Gain = 12dB	9-pin WLCSP (1.5mm × 1.5mm)
AK7835S4	Gain = 12dB	10-pin TMSOP (3mm × 4mm)

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.