



AKUSTICA ANNOUNCES FIRST HIGH DEFINITION MICROPHONE FOR LAPTOP PCs, OTHER BROADBAND MOBILE DEVICES

Taipei, Taiwan—Computex—June 1, 2007—Akustica, the pioneer in acoustic system-on-chip solutions, today introduced the first HD (High Definition) Microphone that enables HD voice quality in laptop PCs and other broadband mobile devices. The AKU2103 is a digital-output microphone with a guaranteed wideband frequency response. It is the first digital microphone to guarantee compliance with the TIA-920 audio performance requirement for wideband transmission in applications such as Voice-over-Internet Protocol (VoIP).

The combination of narrow bandwidth transmission with traditional analog microphones has resulted in the poor voice quality that users experience with phone calls today – but upgrading to wideband networks, wideband CODECs, and supporting VoIP software is not enough to provide an HD voice experience. Since voice starts at the microphone, using the AKU2103 HD Microphone to capture and maintain the original voice signal is essential for delivering true HD voice quality. Analogous to the difference between watching analog and HDTV, HD voice technology improves intelligibility and allows users to hear the nuances and sense the emotions that are absent from phone calls today—bringing face-to-face conversation quality to mobile voice communications.

Like other Akustica microphones, the AKU2103 is a tiny Complementary Metal Oxide Semiconductor (CMOS) microelectromechanical systems (MEMS) device with the mechanical transducer, output amplifier and sigma-delta converter all integrated on a single chip of silicon. The single-chip construction of the AKU2103 coupled with the robust digital output and a higher level of Power Supply Rejection (PSR) make the output signal of the AKU2103 virtually immune to radio frequency (RF)/electromagnetic (EM) interference as well as to power supply modulation. The result of the robust digital output and the wideband frequency response is a clear, realistic sounding, “static”-free voice input signal which does not degrade through the signal path (which can be as long as several feet) from the microphone to the CODEC.

About the AKU2103

The AKU2103 HD Microphone is a surface-mountable, monolithic silicon microphone in a 4mm x 4mm undermount package. It is the first undermount digital microphone to provide a L/R-user select function that allows a single device to be configured as either a left or a right microphone. The Pulse Density Modulated (PDM) digital output of two AKU2103 microphones can also be multiplexed onto a single data wire, reducing the number of cables required for signal routing. This industry standard stereo output is supported by multiple HD Audio and universal serial bus (USB) Audio CODECs. The PSR of better than -70dB and the low power-sleep mode current consumption of <20µA are best-in-class.

The AKU2103 will be sampling in Q307. For more information and volume pricing, please contact Akustica at 412-390-1730 or sales@akustica.com.

About Akustica

Akustica is the leading supplier of digital-output microphone products that are improving voice input quality in a host of voice-enabled applications, from Internet telephony on notebooks to PC camera modules and mobile phones, for companies such as Fujitsu Computer Systems and Gateway Computers. Since Akustica microphones were introduced last year, the semiconductor industry has recognized Akustica's CMOS MEMS technology with accolades and honors, including an EDN Innovation award, an Electronics Products Magazine "Product of the Year" award, and most significant Leapfrog technology of the year from Electronic Design readers. For more information about Akustica, visit our website at www.akustica.com or call (412) 390-1730.

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