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Micro power consumption 4 or 5-wire touch screen controller

San Jose, CA March 4, 2009 — AKM Semiconductor (AKM), the world's premier supplier of audio ICs for professional and consumer markets, today launched the AK4186, a low operating voltage resistive touch screen controller (TSC). This new device, an enhanced version of the widely-used AK4183, includes both 4-wire and 5-wire touch screen control interfaces. It is ideal for limited-space smart-phone touch screen applications, reducing PCB space by 80% using a micro CSP package.

An internal oscillator increases the analog to digital conversion speed, and the sampling rate is 2.4 times faster in sequential read operation compared to conventional products. This high speed operation enables faster coordinate transformation. The AK4186 has both an automatic continuous measurement and a measurement data calculation function. The functions that normally require external processing, such as calculating the average screen input value, are processed by the AK4186. In addition, a new sequential mode achieves short coordinate measurement time while greatly reducing the external processor overhead.

The AK4186 features a 4-wire and 5-wire resistive film touch panel interface with position detection and pen pressure measurement (only for 4-wire system), external input detection, automatic power-down, and an I²C control interface. The sampling rate is up to 2.2kHz. The AK4186 operates off a of single power supply ranging from 1.6V to 3.6V, allowing a direct interface to low-voltage application processors. Ultra low power consumption of 60μA ensures low system power operation. Evaluation boards and samples are available now. For more information or editorial contacts about this product, call AKM toll-free at (888) 256-7364.

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