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USB Write/Touch Screen Interface Controller

FEATURES

- 4-wire low speed Universal Serial Bus (USB) interface
- Conforms to USB Specification, Version 2.0
- Conforms to USB Human Interface Device (HID) Specification, Version 1.1
- Integrated USB transceiver, voltage regulator, and oscillator
- 4-wire analog resistive touch screen interface
- High current up to 50mA drive/sink on touch screen interface
- Write/Touch screen power drawn only when screen is touched
- All CMOS SMT components
- Very low power consumption, touch 21ma, no touch 7ma, standby and suspend < 100uA
- Uses 12-bit analog-to-digital converter (ADC) to produce 4096 x 4096 resolution
- Very high 75kHz ADC sampling rate to give 36k.touch/sec
- Special firmware algorithm to smooth handwriting trace. Supports Pivot rotation.
- Emulates mouse single, double and right click
- Software includes calibration utility and driver
- Optional bundle includes annotation software and supports Pivot rotation.
- Works in Windows 98, 2K, ME, and XP
- Tiny board footprint
- Low cost for mass production applications

APPLICATIONS

- Tablet PCs, Write and Touch Monitors
- Standalone write/touch screen controller
- Signature pad interface
- Notebook write/touch screen interface

DESCRIPTION

Low-speed USB devices throughput (1.5Mb/sec) is specified for the HID device operations (mouse, keyboard, touch screen, etc.) in response to selection and handwriting motions. It is separate from the full-speed USB traffic and does not take any system IO/memory resources. An easy and simple interface to the host computer via USB eliminates the need for an external power supply.

The tiny board can be placed into a Tablet PC, Notebook computer, PDA, LCD monitor, or even a clip-on screen frame.

Power is automatically saved when the screen is untouched. 12-bit and high sampling rate ADC makes touch response and handwriting smooth and quick. The smoothing firmware algorithm produces nice and clear handwriting that eases the recognition by the Tablet PC applications. The write/touch screen motions emulate the mouse's single and double-click, drag, and button-up. A steady touch at a position controls the right-button click such that a drop-down menu can be performed. The touch screen will work as a standalone pointing device which has been used in most POS. The write screen will work as a standalone writing device which is good for presentation, annotation, teaching and training application. This interface board can make a write or touch screen to be used concurrently with any kind of mouse.

Not like the tablet components, which have a higher cost and complicated design, the AR write/touch screen with low cost and high quality resulting from the USB interface controller board will ensure your applications' and products' success.

