

PenMount 51A5EH Touch screen Control Board

RoHS compliance (SGS test report number: [CS/2005/C0008](#))

PenMount 51A5EH USB control board is a touch screen control board designed for USB interface and specific for 5-wire touch screens. It is designed with USB interface features with



multiple devices supporting function, it is able to support up to 15 USB devices through PenMount 51A5EH board. With the small footprint mechanical size, the controller consists of two controller ICs, PenMount 5100 and PenMount 5600. PenMount 5100 is an 8-bit AVR microcontroller while PenMount 5600 is a Universal Serial Bus microcontroller. There are two connectors on this board, one connector is for 5-wire touch screen cable, and another is for 4-pin USB A type cable (optional).

Specification:

Touch Screen:	For 5-wire analog resistive type
Communications:	USB 1.1 Low Speed
Resistance Range:	50~1.3K
Touch Screen Controller:	PenMount 5100 (10-bit A/D converter inside)
Resolution:	2048x2048
USB controller:	PenMount 5600 RISC USB Microcontroller
Size:	65 (L) x 26 (W) x 8.3 (H) mm ; two 3φscrew holes
Portrait:	Support 90° 180° and 270° screen rotation
Diagnostic:	Touch activate indication LED on board
Electrostatic Discharge (ESD)	Air Discharge 20KV Contact Discharge 15KV
Storage Temperature Range	-40 ~ 85
Operating Temperature	0 ~ 70
Multi-devices:	Supporting up to 15 USB devices

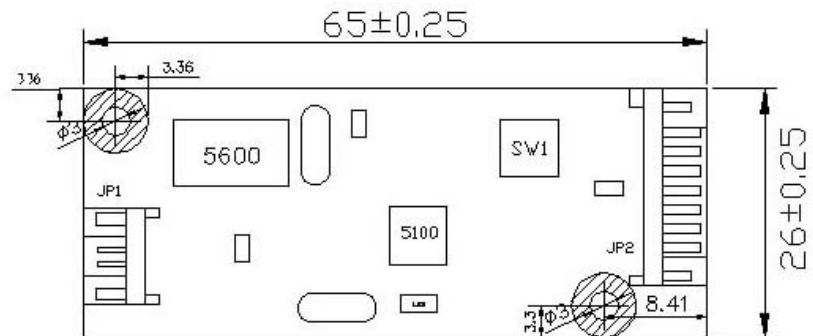
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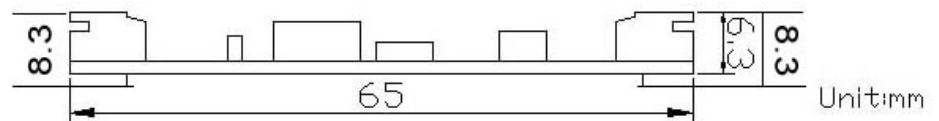
Driver Software

Windows 98/Me, Windows 2000/XP/2003/Vista, Linux (up to kernel 2.6),
Windows CE 4.2/5.0/6.0 (for X86, Armv4, Armv4i platform)

Mechanical Drawing: PenMount 51A5EH Control Board



PenMount 51A5EH Control Board



Connector Definition

JP1: USB Interface:

Pin 1:GND Pin 2:D+ Pin 3:D- Pin 4:VCC

JP2: Touch Screen Lines

	5-Wire
PIN1	Ground
PIN2	UL
PIN3	UR
PIN4	LL
PIN5	LR
PIN6	Sense
PIN7	---
PIN8	---
PIN9	---

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