PenMount 6300 USB Interface Control Board

PenMount 6300 USB control board is a touch screen control board designed for USB interface and specific for 4, 5, 8-wire touch screens. It is designed with USB interface features with multiple devices supporting function. PenMount 6300 control board using PenMount 6000 controller that has been designed for those who may like and all-in-one solution with 10-bit A/D converter built-in to make the total printed circuit board denser, circuit diagram also designed for 12-bit ADC for optional. There are two connectors on this board, one connector is for 4, 5, 8-wire touch screen cable (optional), and another is for 4-pin USB A type cable (optional).

Specifications:

Touch Screen:	For 4-, 5-, 8-wire analog resistive type
Communications:	USB Full-speed, 12Mbps
Touch Screen Controller:	PenMount 6000 microcontroller
Resolution:	1024x1024 / 4096x4096 (Optional)
Size:	60x26 mm, two 3φscrew holes
Portrait:	Support 90° 180° and 270° screen rotation
Resistance Range:	50~1.3K ohm
Diagnostic:	LED
Operating Voltage	+5V DC
Storage Temperature Range	-40 ℃~ 85 ℃
Operating Temperature	-20℃ ~ 70 ℃
Power Consumption	Standby Mode : 13.4 mA ; Active Mode : 24.6 mA (VCC=+5V, Top sheet Panel Resistance: 274 ohm ; Bottom sheet Panel Resistance: 770 ohm)

Driver Software

Windows 2000/XP/XPE/2003/Vista and newest released version,
WinCE 4.2 / 5.0 / 6.0 (for X86, Armv4, Armv4i, MIPS, SH3, SH4 Platform),
Linux OS (supported X-Windows mode and up to kernel 2.6)

Website: http://www.penmount.com
E-mail: penmount@seed.net.tw

Mechanical Size:

Connector Definition

J1: USB / Interface:

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

SW1:

S1 set at “ON” is for 4, 8- wire touch screen
S1 set at “OFF” is for 5-wire touch screen

JP1: Touch Screen Lines:

	8 wire	4 wire	5 wire
PIN 1	Ground	Ground	Ground
PIN 2	Top Excite	Top	UL (Y)
PIN 3	Bottom Excite	Bottom	UR (H)
PIN 4	Left Excite	Left	LL (L)
PIN 5	Right Excite	Right	LR (X)
PIN 6	Top Sense	N/A	Sense (S)
PIN 7	Bottom Sense	N/A	N/A
PIN 8	Left Sense	N/A	N/A
PIN 9	Right Sense	N/A	N/A

Website: http://www.penmount.com
E-mail: penmount@seed.net.tw