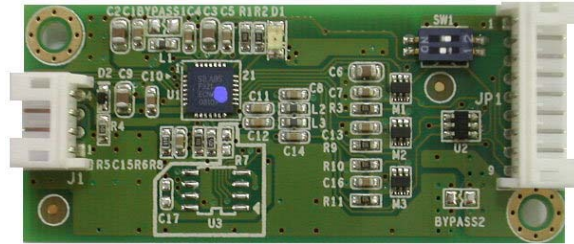


PenMount 6300 Control Board Data Sheet

PenMount 6300 USB Interface Control Board

RoHS compliance

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 A/D converter built-in to make the total printed circuit board denser. 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 controller IC
Resolution	2048x2048
Size	60x26 mm, two 3φscrew holes
Cursor accuracy	< 1% (Active Area Diagonal of touch screen with PenMount Advanced calibration utility support)
Resistance Range	50~1.3K ohm
Diagnostic	LED on board
Operating Voltage	+5V DC
Electro Static Discharge (ESD)	Air Discharge 15KV , Contact Discharge 8KV
Storage Temperature	-40 °C ~ 85 °C
Operating Temperature	-20°C ~ 70 °C
Power Consumption	Standby Mode : 13.4 mA ; Active Mode : 21.5 mA (VCC=+5V, Top sheet Panel Resistance: 365 ohm ; Bottom sheet Panel Resistance: 660 ohm) Note. Actual current will be different by touch panel's resistance.

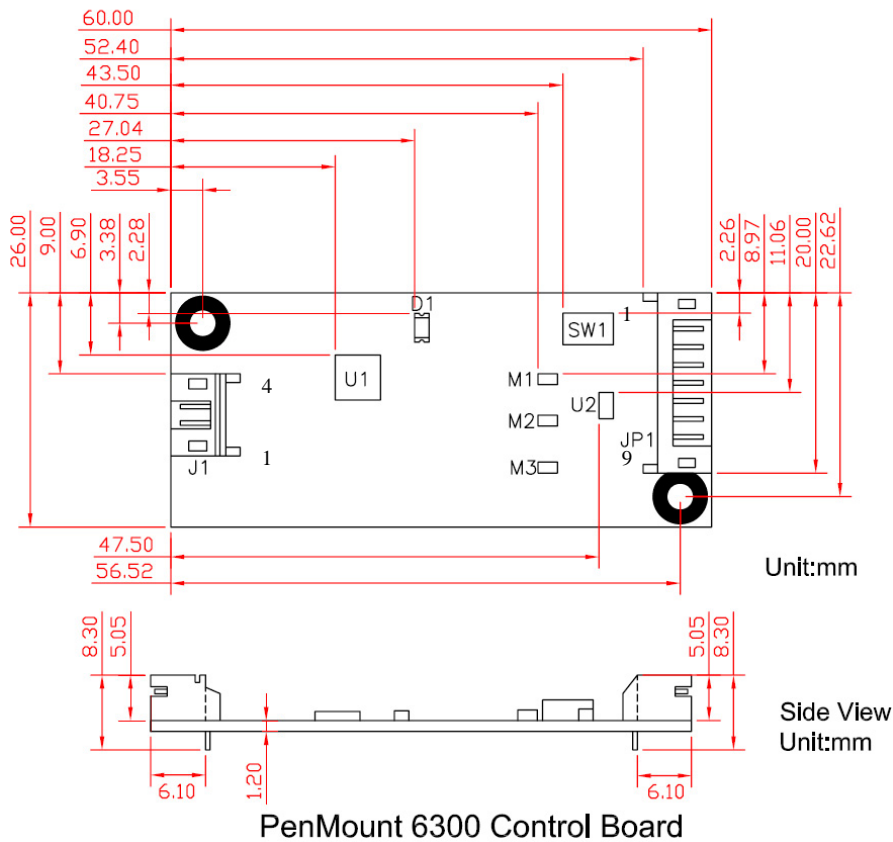
Driver Software:

- Windows 2000 / XP / XPE / 2003 / 2008/ Vista / 7
- WinCE 4.2 / 5.0 / 6.0
- Linux (Kernel 2.6 and X-Window mode)
- QNX 6.2/ 6.3/ 6.4/ 6.5 (Inbox support)

PenMount 6300 Control Board Data Sheet

Mechanical Size:

COMPONENT LOCATION



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