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PenMount 6500 Control Board Data Sheet

PenMount 6500 USB and RS232 Interface Control Board

RoHS compliance

PenMount 6500, one of PenMount's newest innovation, the ultimate combo board. A collectively integrated features and functions of auto detecting USB and RS232 serial interfaces supporting 4, 5 & 8 wire resistive touch screens; complemented by the superbly developed PenMount drivers with auto installation driver capability.

PenMount 6500 control board using PenMount 6000 controller that has been designed for those who may like all-in-one solution with A/D converter built-in to make the total printed

circuit board denser. There are three connectors on this board, one connector is for 4, 8-wire or 5-wire touch screen cable, and another is for 4-pin USB A type cable, the third is for RS232 cable.



Specifications:

Touch Screen	For 4-, 5-	For 4-, 5-, 8-wire analog resistive type		
Interface	USB	Full speed 12MHz bps		
	RS232	19200 / 9600 baud rate		
		non-PnP / PnP mode		
Touch Screen Controller	PenMoun	PenMount 6000 controller IC		
Resolution	2048x204	2048x2048		
Size	60x26 mr	60x26 mm, two 3φscrew holes		
Cursor accuracy	< 1% (A	< 1% (Active Area Diagonal of touch screen with		
	Р	PenMount Advanced calibration utility support)		
Resistance Range	50~1.3K o	50~1.3K ohm		
Diagnostic	LED	LED		
Operating Voltage	+5V DC for USB			
	+5V~12V	+5V~12V DC for RS232 (+5~12V for 4/8-wire; +5V only for 5-wire)		
Electro Static Discharge	Air Discha	Air Discharge 15KV ,		
(ESD)	Contact D	Contact Discharge 8KV		
Storage Temperature	-40 °C ~ 8	-40 °C ~ 85 °C		
Operating Temperature	-20°C ~ 70 °C			
Power Consumption	Standby N	Standby Mode : 14.4 mA ; Active Mode : 22.5 mA		
		(VCC=+5V, Top sheet Panel Resistance: 365 ohm ;		
		Bottom sheet Panel Resistance: 660 ohm)		
	Note. A	Note. Actual current will be different by touch panel's resistance.		

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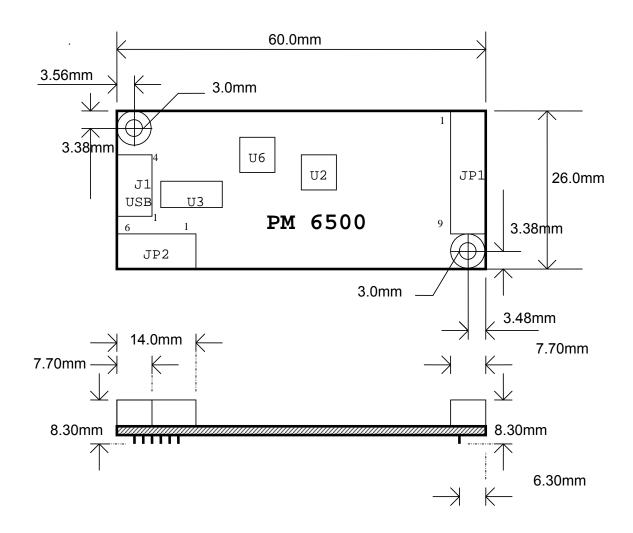


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Driver Software:

RS232 interface : DOS, 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 **USB interface** : Windows 2000/ XP/ XPE/ 2003/ 2008/ Vista/ 7, WinCE 4.2/ 5.0/ 6.0, Linux OS (Kernel 2.6 and X-Window mode), QNX 6.2/ 6.3/ 6.4/ 6.5 (Inbox support)

Mechanical Size:



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Connector Definition

J1: USB / Interface:

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

JP2 / RS232 Interface:

Pin 1: Ground Pin 2: +5~12V DC Pin 3: RTS Pin 4: TXD Pin 5: RXD Pin 6: Ground

JP1: Touch Screen Lines:

	8 wire	4 wire	5 wire
PIN 1	Ground	Ground	Ground
PIN 2	Top Excite	Тор	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

SW1:

	ON	OFF
1	4,8 wire	5 wire
2	*PNP mode	Non-PNP mode
3	9600 baud rate	*19200 baud rate
4	Reserved	Reserved
		* Default

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