

## PenMount 6500A Control Board Data Sheet

# PenMount 6500A USB and RS232 Interface Control Board

## **RoHS** compliance

PenMount 6500A has collectively integrated features and functions of auto detecting USB and RS232 serial interfaces supporting 4, 8-wire or 5-wire resistive touch screens; complemented by the superbly developed PenMount drivers with auto installation driver capability. PenMount 6500A control board uses 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, 8-v	For 4, 8-wire or 5-wire analog resistive type		
Interface	USB	Full speed 12Mbps		
	RS232	19200 baud rate, N81		
		PnP mode		
Touch Screen Controller	PenMoun	PenMount 6000 controller IC		
Resolution	2048x204	2048x2048		
Size	60x26 mn	60x26 mm, two 3φ screw holes		
Cursor accuracy	< 1% (A	< 1% (Active Area Diagonal of touch screen with		
	PenMount Advanced calibration utility support			
Resistance Range	50~1.3K d	50~1.3K ohm		
Diagnostic	LED	LED		
Operating Voltage	+5V DC	+5V DC		
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	-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.		

#### **Driver Software:**

RS232 interface: DOS, Windows 2000/ XP/ XPE/ 2003/ 2008/ Vista/ 7, WinCE 4.2/ 5.0/ 6.0,

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Linux (Kernel 2.6 and X-Window mode), QNX 6.2/ 6.3.2/ 6.4.1/ 6.5

**USB interface**: Windows 2000/ XP/ XPE/ 2003/ 2008/ Vista/ 7, WinCE 4.2/ 5.0/ 6.0,

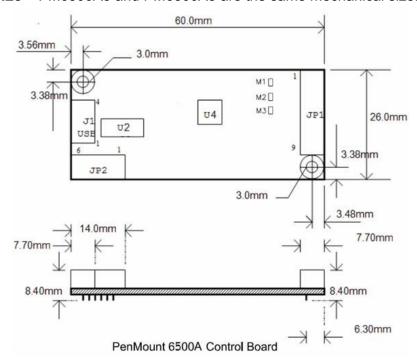
Linux OS (Kernel 2.6 and X-Window mode), QNX 6.4.1/ 6.5 (Inbox support)

Website: <a href="http://www.penmount.com">http://www.penmount.com</a> E-mail: penmount@seed.net.tw



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**Mechanical Size**: PM6500A5 and PM6500A8 are the same mechanical size.



**PM6500A5** supports 5 wires touch panel, there's a 0 ohm resistance of R14 in the circuit- therefore we don't mount the component.



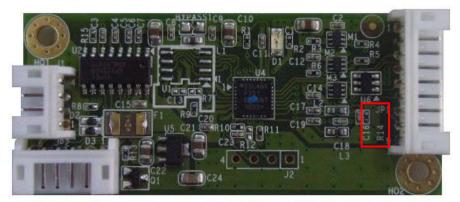
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PM6500A8 supports 4/8 wires touch panel, there's a 0 ohm resistance of R14 in the circuit.





### **Connector Definition**

### J1 USB Connector:

PIN 1	GND	
PIN 2	D+	
PIN 3	D-	
PIN 4	VCC	

### JP2 RS232 Connector:

PIN1	Ground	
PIN2	+5V DC	
PIN3	RTS	
PIN4	TXD	
PIN5	RXD	
PIN6	Ground	

### JP1 Touch Screen Lines:

	PM6500A8		PM6500A5
	8-Wire	4-Wire	5-Wire
PIN1	Ground	Ground	Ground
PIN2	Top Excite	Тор	UL (Y)
PIN3	Bottom Excite	Bottom	UR (H)
PIN4	Left Excite	Left	LL (L)
PIN5	Right Excite	Right	LR (X)
PIN6	Top Sense		Sense (S)
PIN7	Bottom Sense		
PIN8	Left Sense		
PIN9	Right Sense		

The available PM6500A control board:

-- PM6500A8: 4 · 8 - wire · RS232 & USB COMBO Interface ·

-- PM6500A5: 5 - wire , RS232 & USB COMBO Interface •

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