

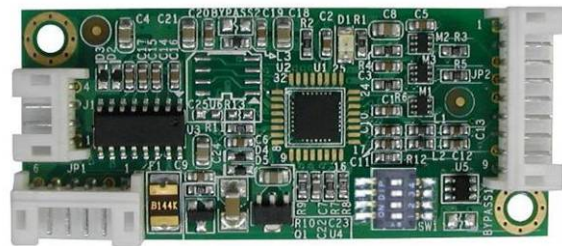
PenMount 6500 Control Board Data Sheet

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 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	
Interface	USB	Full speed 12MHz bps
	RS232	19200 / 9600 baud rate non-PnP / PnP mode
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	
Operating Voltage	+5V DC for USB +5V~12V DC for RS232 (+5~12V for 4/8-wire; +5V only for 5-wire)	
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 : 14.4 mA ; Active Mode : 22.5 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.	

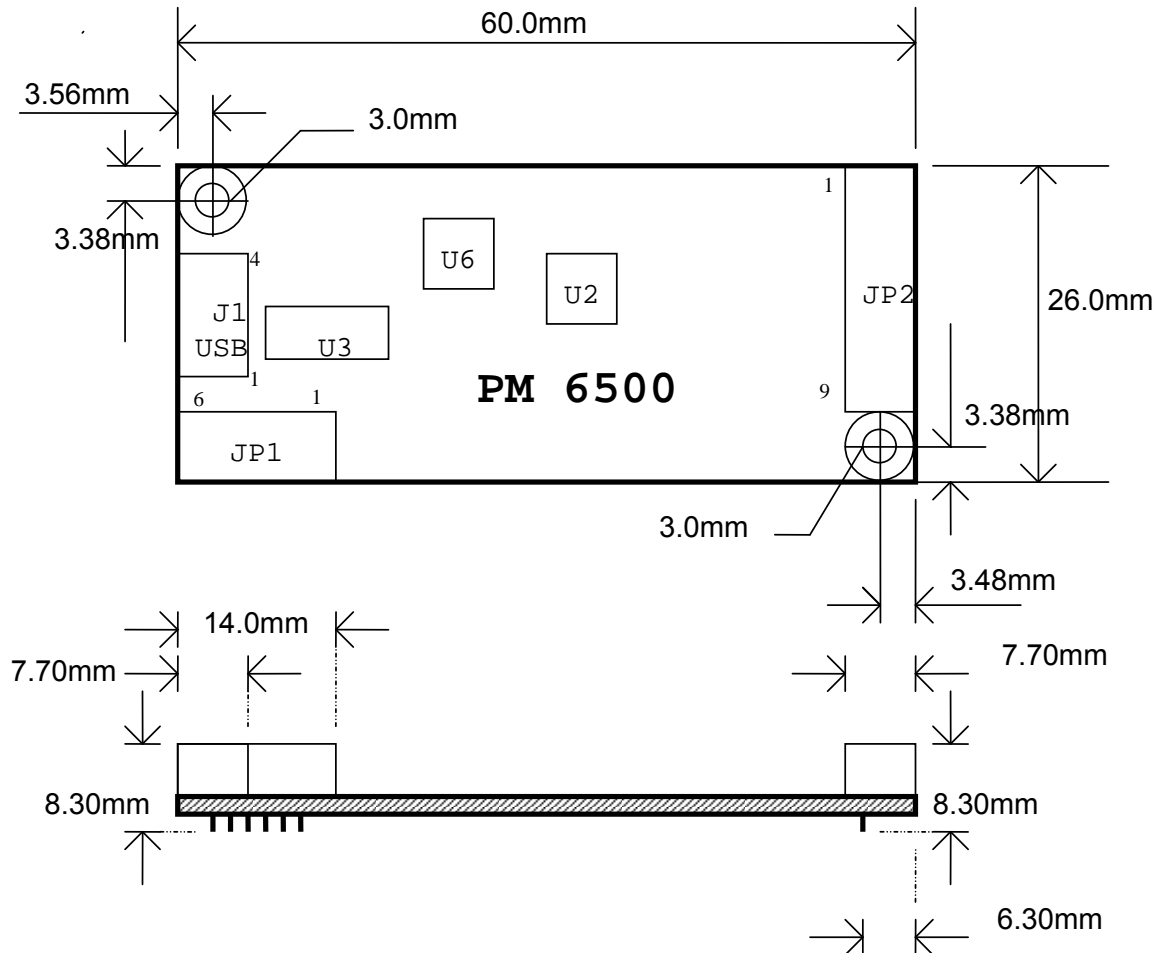
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Driver Software:

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

JP1 / RS232 Interface:

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

JP2: 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

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