

# PenMount 6200D8 Control Board Data Sheet

## RoHS compliance

### Features:

PenMount 6200D8 Control Board integrated features and functions for 4, 8 wire resistive touch screens; both USB and RS-232 interface with auto-detection; complemented by the superbly developed PenMount drivers with auto installation driver capability.

PenMount 6200D8 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. New design divides the screw holes into system ground and the earth, for providing more flexible integration applications. There are five connectors on this board. J1 connects to USB. J2 is for 4- and 8-wire touch screen via extension cable. JP3 supplied the power for RS232 interface. JP4 connects to RS232 interface. JP6 connects to 4-wire FPC connector touch screen (pitch 1.0mm ZIF tail).

### Specifications:

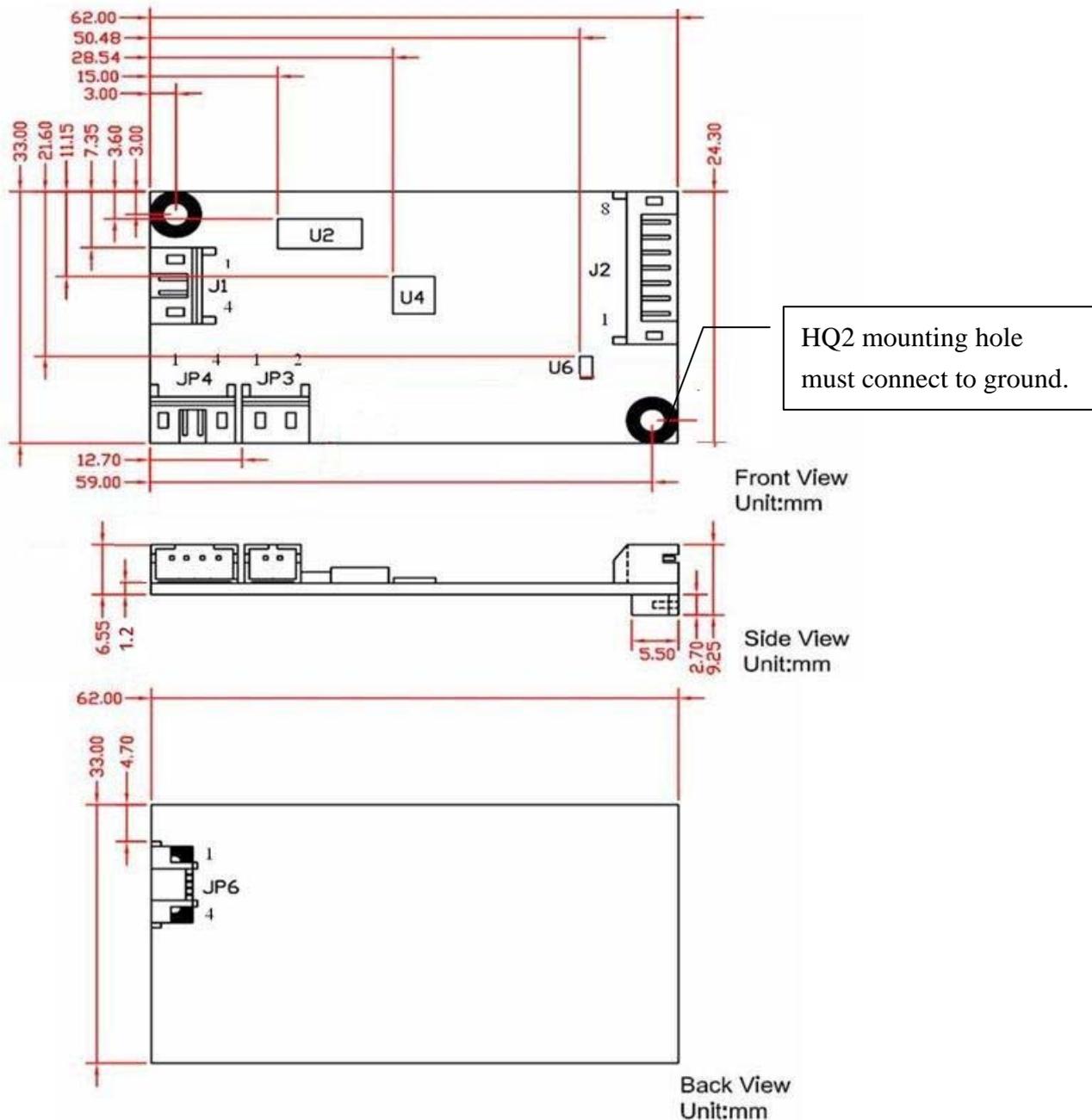
Touch Screen	For 4-, 8-wire analog resistive type	
Interface	USB	Full speed 12MHz bps
	RS232	19200 baud rate ; PnP mode
Touch Screen Controller	PenMount 6000 controller IC	
Resolution	2048X2048	
Size	62.0 x 33.0 mm, two 3.5 φ screw holes	
Cursor accuracy	< 1% (Active Area Diagonal of touch screen with PenMount Advanced calibration utility support)	
Diagnostic	LED on board	
Resistance range	50 ~ 1.3K ohm	
Operating Voltage	+5V DC for USB +5V~12V DC for RS232	
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 : 15.4 mA ; Active Mode : 24.2 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.	
MTBF	30°C -- 3689930.7 Hours	
	40°C -- 2631756.24 Hours	

## Driver Software

**RS232 interface** : DOS, Windows 2000/ XP/ XPE/ 2003/ 2008/ Vista/ 7, WinCE 4.2/ 5.0/ 6.0/7.0, 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/ 6.0/7.0, Linux OS (Kernel 2.6 and X-Window mode), QNX 6.4.1/ 6.5 (Inbox support)

## Mechanical :



**Connector Definition:**

**J1: Connect to USB:**

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

**JP4 : Connect to RS232:**

PIN 1	Ground
PIN 2	TXD
PIN 3	RXD
PIN 4	RTS

**JP3 : Power Connector for RS232**

PIN 1	+5V DC
PIN 2	Ground

**J2: Connect to 4/8 wire Touch Screen:**

	8 wire	4 wire
PIN 1	Top	Top
PIN 2	Top Sense	N/A
PIN 3	Bottom Sense	N/A
PIN 4	Bottom	Bottom
PIN 5	Left	Left
PIN 6	Left Sense	N/A
PIN 7	Right Sense	N/A
PIN 8	Right	Right

**JP6: Connect to 4-wire FPC connector (ZIF tail, Pitch : 1.0 mm )**

PIN 1	Bottom
PIN 2	Left
PIN 3	Top
PIN 4	Right

**Ordering Information:**

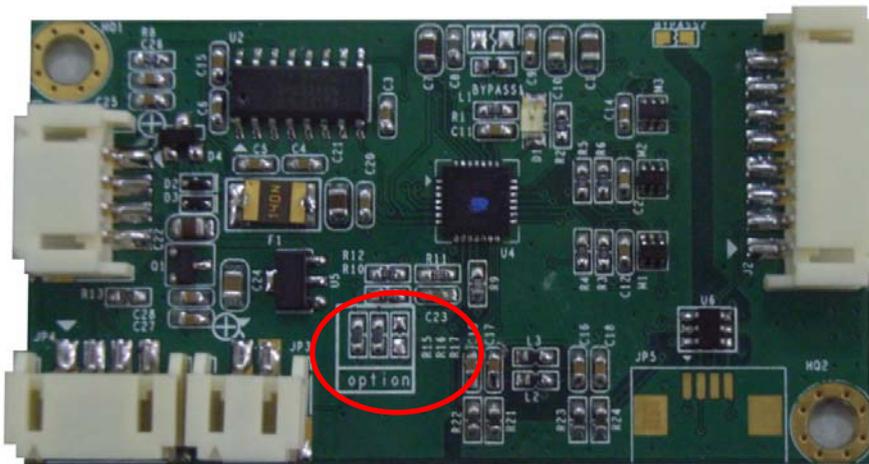
**PM6200D8**

Cancel SW design and Fixed configuration as bellow :

Touch Screen	For 4,8-wire analog resistive type
Rs232 Interface	19200 baud rate PNP mode

**Picture of PM6200D8 Control Board:**

**Top View**



**Bottom View**

