

PenMount 6202B Control Board Data Sheet

RoHS compliance

PenMount 6202B Control Board integrated features and functions for 4- and 5- 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 6202B 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. PM6202B was designed-in with two kinds of connector. One is connected with touch screen directly for 4-wire or 5-wire selective. Another is supported to both of RS232 and USB interface.

◆ Specifications:

Touch Screen	For 4- or 5-wire analog resistive touch screens	
Interface	USB	Full speed 12MHz bps
	RS232	9600 baud rate non-PnP mode
Touch Screen Controller	PenMount 6000 controller IC	
Resolution	2048 x 2048	
Dimension holes	(L)70.0mm x (W)20.0mm x (H)10.3mm (max), two 3.0 φ screw	
Connector	ZIF connector or Wafer connector on board for touch screen	
Diagnostic	LED on board	
Cursor accuracy	< 1% (Active Area Diagonal of touch screen with PenMount Advanced calibration utility support)	
Resistance range	30 ~ 1.3K ohm	
Operating Voltage	+5V DC	
Power Consumption	Standby Mode : 13.8 mA ; Active Mode : 21.8 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.	
Electro Static Discharge (ESD)	Air Discharge 15KV , Contact Discharge 8KV	
Storage Temperature	-40 °C ~ 85 °C	
Operating Temperature	-20 °C ~ 70 °C	
MTBF	30°C -- 4028505.7 Hours	
	40°C -- 2871657 Hours	

◆ Driver Software:

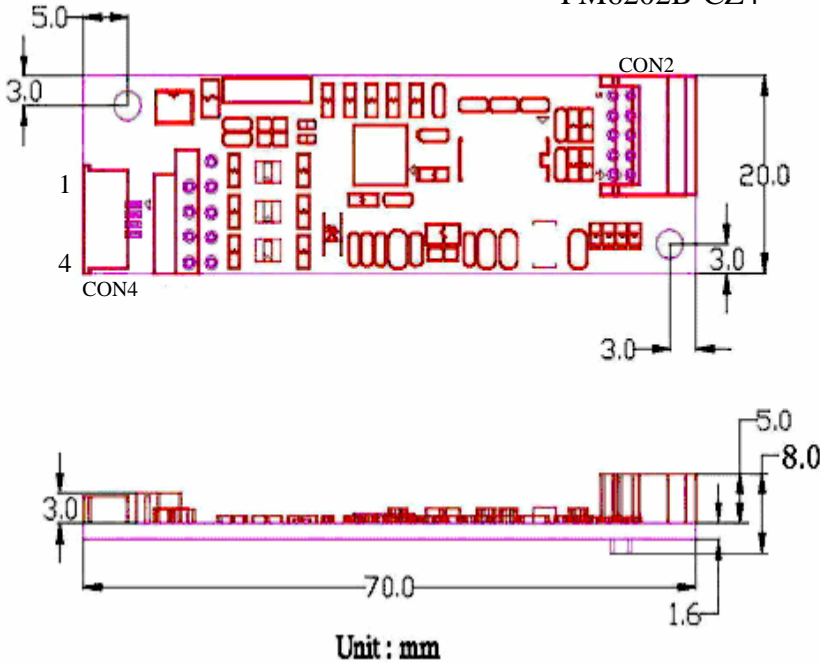
RS232 interface : DOS, Windows 2000/ XP/ XPE/ 2003/ 2008/ Vista/ 7, WinCE 4.2/ 5.0/ 6.0, Linux (Kernel 2.6 and X-Window mode), QNX 6.2/ 6.3/ 6.4

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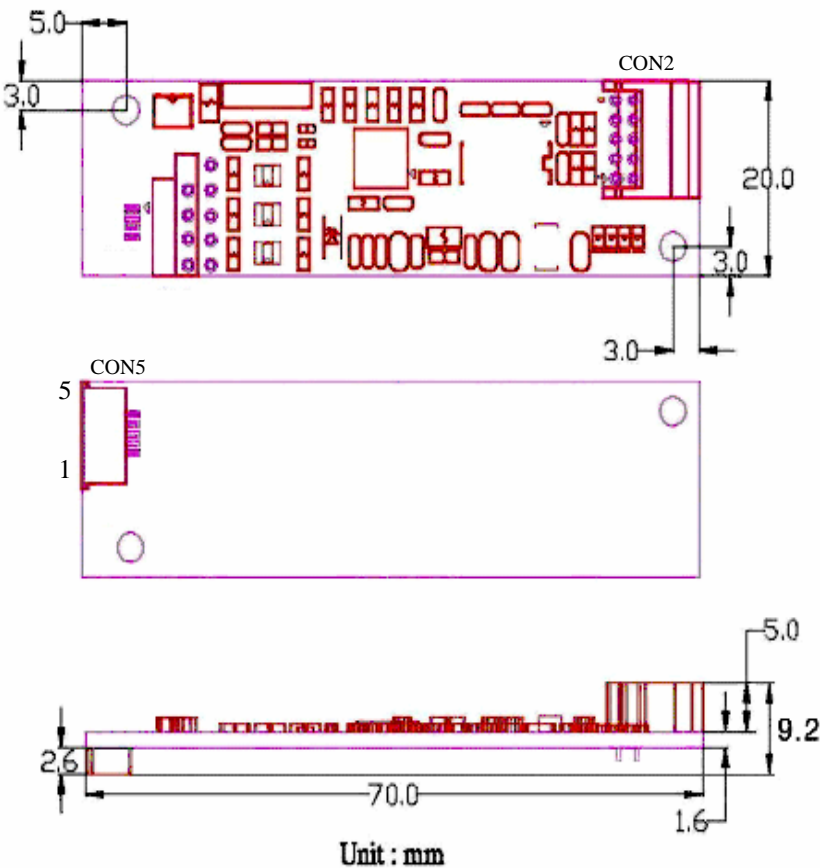
USB interface : Windows 2000/ XP/ XPE/ 2003/ 2008/ Vista/ 7, WinCE 4.2/ 5.0/ 6.0,
 Linux OS (Kernel 2.6 and X-Window mode), QNX 6.2/ 6.3/ 6.4 (Inbox support)

◆ Mechanical Drawing:

◆ PM6202B-CZ4

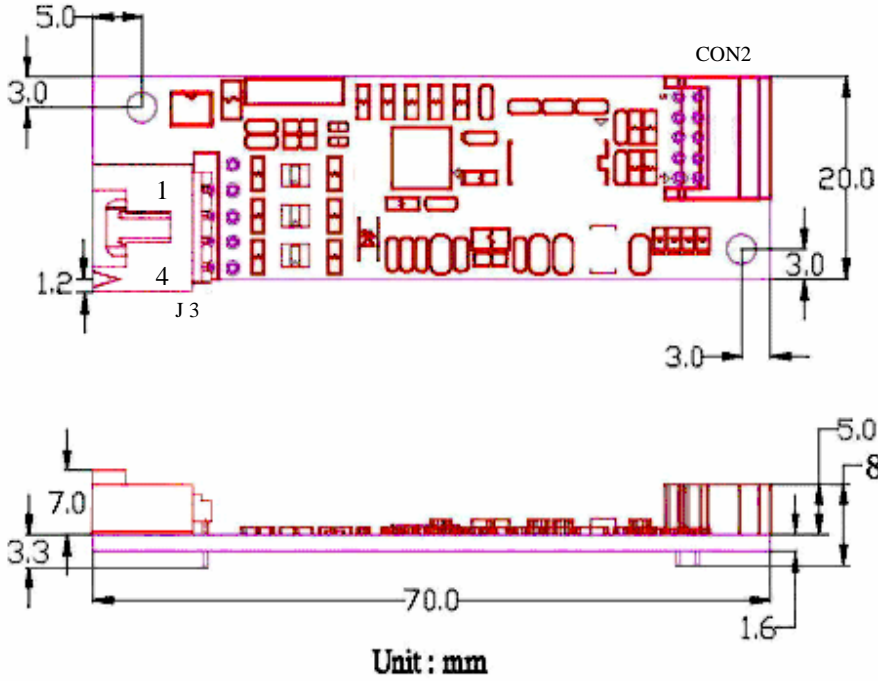


◆ PM6202B-CZ5

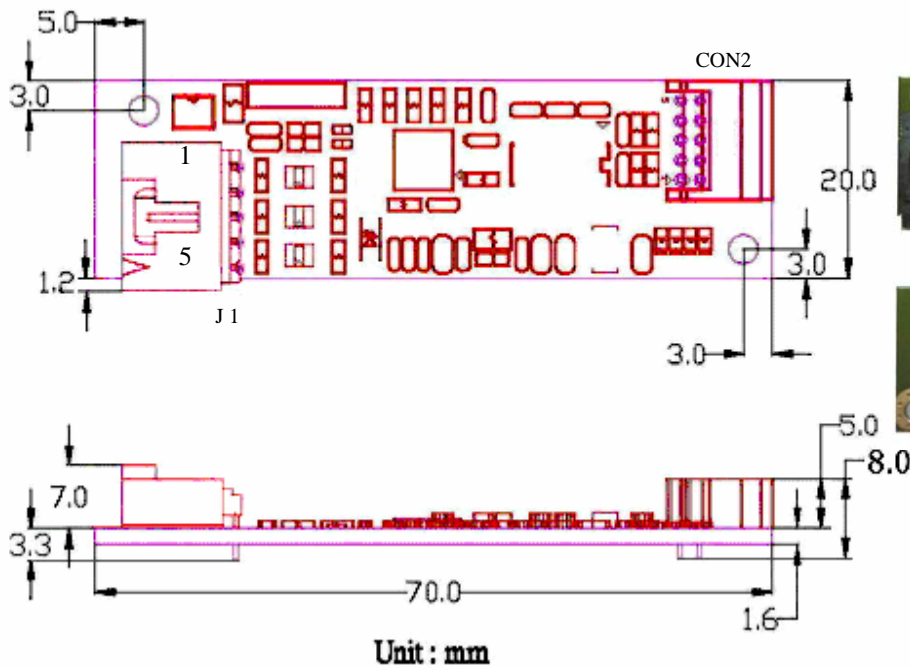


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• PM6202B-CW4

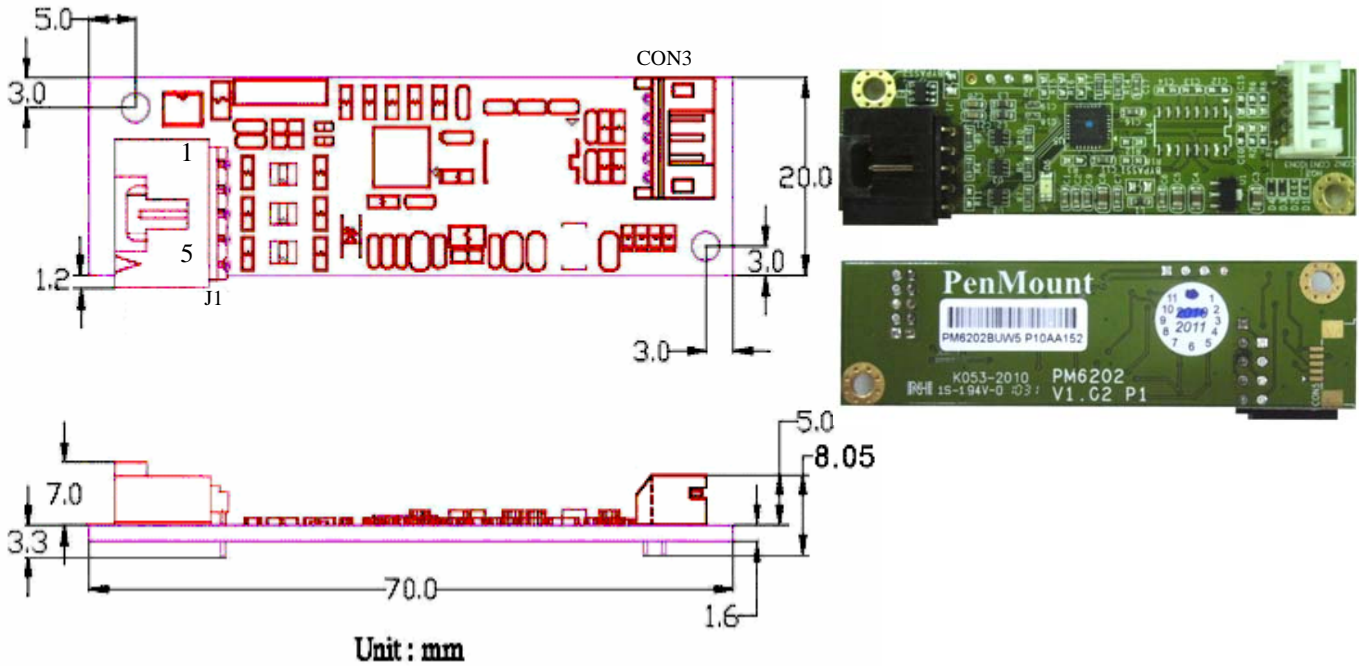


• PM6202B-CW5



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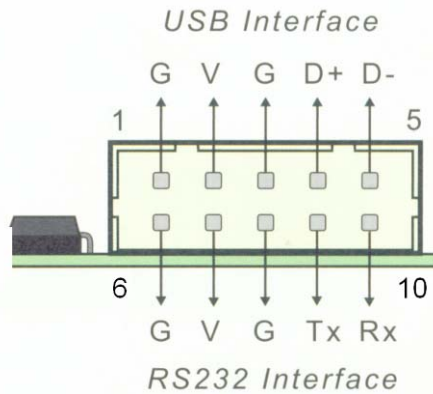
• PM6202B-UW5



◆ Connector and Jumper definition:

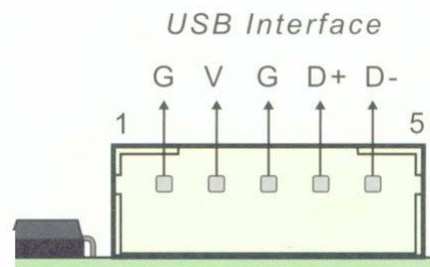
CON2: (PM6202B-CW4/CW5/CZ4/CZ5)

For USB and RS-232 Interface:



CON3: (PM6202B-UW5)

For USB Interface:



J1 / J3 / CON4 / CON5:

Connect to 4- and 5-wire Touch Screen:

	J1 / CON5 (5-wire)	J3 (4-wire)	CON4 (4-wire)
PIN 1	UL (Y)	Top	Top
PIN 2	UR (H)	Left	Left
PIN 3	Sense (S)	Bottom	Bottom
PIN 4	LL (L)	Right	Right
PIN 5	LR (X)	N/A	N/A

The available PM6202B control board :

- PM6202B-CZ4 : 4-wire, ZIF Connector pitch 1.0mm (Dual side) ; RS232 & USB COMBO Interface.
- PM6202B-CZ5 : 5-wire, ZIF Connector pitch 1.0mm (Dual side) ; RS232 & USB COMBO Interface.
- PM6202B-CW4 : 4-wire, Wafer Connector pitch 2.54mm ; RS232 & USB COMBO Interface.
- PM6202B-CW5 : 5-wire, Wafer Connector pitch 2.54mm ; RS232 & USB COMBO Interface.
- PM6202B-UW5 : 5-wire, Wafer Connector pitch 2.54mm ; USB Interface.