PenMount® PenMount 9036CH Control Board Data Sheet

PenMount 9036CH Touch Screen Control Board

RoHS compliance

PenMount 9036CH control board is a powerful RS-232 touch screen control board to support 4-, 8-, or 5-wire touch screens by executing the same drivers as all PenMount series control board and ICs. PenMount 9036CH is good for all kinds of resistive touch screens, user could put PenMount 9036CH control board in different systems space and connected to system's serial interface.
There are two connectors on board, one connector is for the power and RS-232 interface, power line is allowed to have 5V input, RS-232 interface cable has 9-pin D-sub connector, another is for 4, 8-wire or 5-wire different touch screens.

Electrical Specifications:

Touch Screen	For 4, 8-wire or 5-wire analog resistive type
Interface	RS-232
Baud Rate	19200 baud rate selection, N81
Mode selection	PnP mode
Resolution	2048x2048
Resistance Range	50~1.3K ohm
Electrostatic Discharge (ESD)	Air Discharge 15KV Contact Discharge 8KV
Power Input:	+5V DC
Operating Temperature	-20℃ ~ 70 ℃
Storage Temperature	-40 ℃~ 85 ℃
Mechanical Size	60x26 mm, two 3φ screw holes
Diagnostic	LED on board
Power Consumption	Standby Mode : 16 mA ; Active Mode : 27.5 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.
MTBF	30℃ -- 4456288 Hours 40℃ -- 3260175 Hours

Driver Software

DOS, Windows 3.1/ NT4.0/ 95/ 98/ Me/ 2000/ XP/ 2003/ 2008/ Vista/ 7,
Linux (up to kernel 2.6), QNX 6.2/ 6.3.2/ 6.4.1/ 6.5,
Windows CE 4.2/ 5.0/ 6.0 (for X86, Armv4, Armv4i platform); Solaris 10

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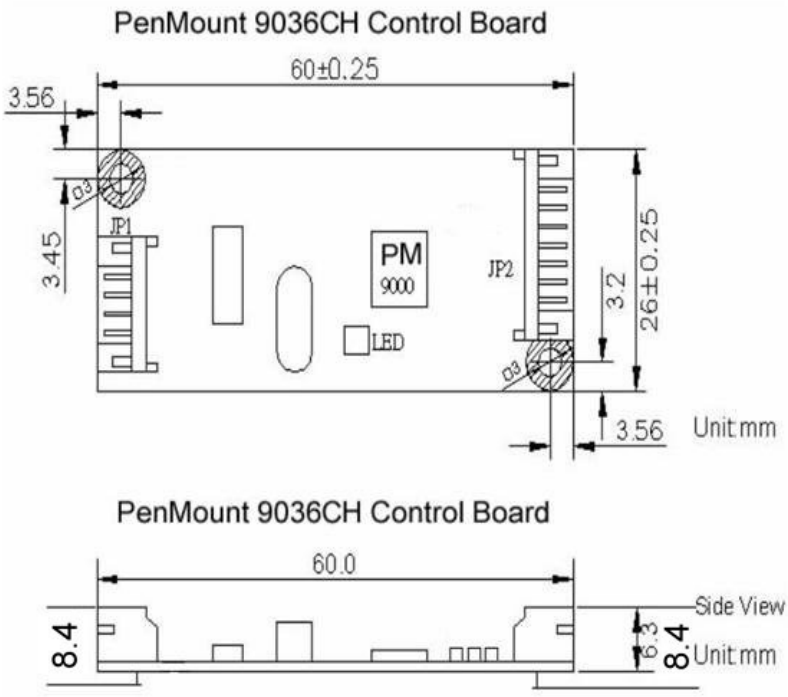
Mechanical Size：PM9036CH5 and PM9036CH8 are the same mechanical size.



PM9036CH5 supports 5 wires touch panel, there's a 0 ohm resistance of R13 in the circuit- therefore we don't mount the component. There's a 0 ohm resistance of R12 in the circuit.

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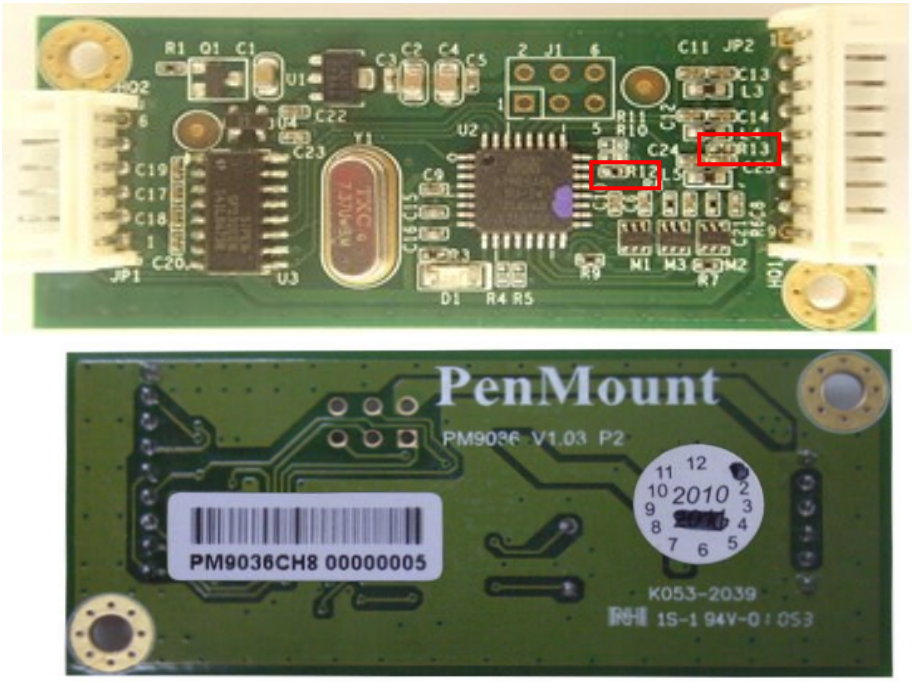
PM9036CH8 supports 4/8 wires touch panel, there's a 0 ohm resistance of R12 in the circuit- therefore we don't mount the component. There's a 0 ohm resistance of R13 in the circuit.



Connector Definition

JP1 RS-232 Connector：

PIN 1	Ground
PIN 2	Power Input
PIN 3	RTS
PIN 4	TXD
PIN 5	RXD
PIN 6	Ground

JP2 Touch Screen Lines：

	PM9036CH8		PM9036CH5
	8-Wire	4-Wire	5-Wire
PIN1	Ground	Ground	Ground
PIN2	Top Excite	Top	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 PM9036CH control board：

-- PM9036CH8：for 4、8 - wire，RS232 Interface。

-- PM9036CH5：for 5 - wire，RS232 Interface。