

PenMount 9036 Touch screen Control Board

PenMount 9036 control board is a powerful RS-232 touch screen control board to support 4-, 5-, and 8-wire touch screens by executing the same drivers as all PenMount series control board and ICs. PenMount 9036 is good for all kinds of resistive touch screens, user could put PenMount 9036 control board in different systems space and connected to system's serial interface.

PenMount 9036 is selected the different type touch screen by dip switch, also with automatic pin adjustment by software drivers. There are two connectors on board, the first is for the power and RS-232 interface, power line is allowed to have 5V to 12V DC input, RS-232 interface cable has 9-pin D-sub connector, this connector is for 4-wire, 5-wire and 8-wire different touch screens.



Electrical Specifications:

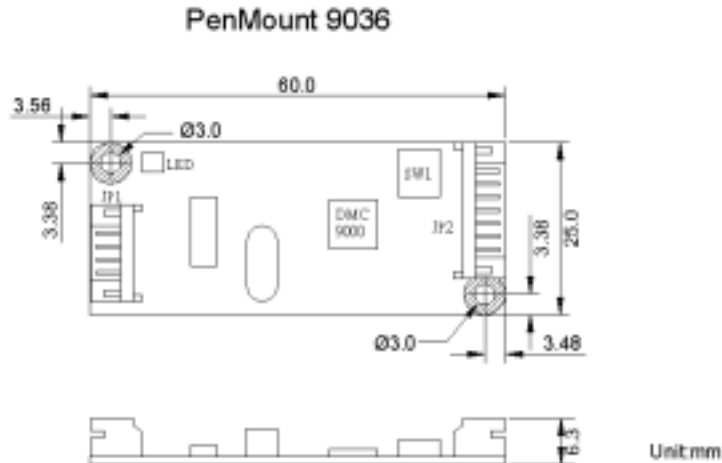
Touch Screen:	For 4-, 5- & 8-wire analog resistive type
Touch Screen Controller	DMC9000
Communications:	RS-232
Baud Rate:	19200 and 9600 baud rate selection
Resolution:	2048 x 2048
Mode selection:	PnP or non-PnP
Power Input:	5V to 12V DC
Power Consumption:	12V: 23mA+ i where ($i = v/\text{touch screen sheet } R$) 5V: 20mA+ I where ($i = v/\text{touch screen sheet } R$)
Mechanical Size:	60 (L) x 25 (W) x 6.3 (H) mm
Portrait:	Support 90° to 270° screen rotation
Storage Temperature Range	-40 to 85
Operating Temperature	0 to 70
Static Protection:	ESD device optional
Others:	Touch activate indication LED on board

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Driver Software

DOS, Windows 3.11, Windows 95/98/Me, Windows NT/2000/XP, QNX, Linux, Windows CE (for both X86 and SA CPU, Xscale)

Mechanical Size



Connector Definition

JP1:

- Pin 1 and P2: pin 1: 'Ground', pin 2: for 5V to 12V DC power
- Pin 3 to Pin 6: PIN3: RTS PIN4: TXD PIN5: RXD PIN6: Ground

JP2: Touch Screen Lines:

	8-Wire	4-Wire	5-Wire
PIN1	Ground	Ground	Ground
PIN2	Top	Top	UL
PIN3	Bottom	Bottom	UR
PIN4	Left	Left	LL
PIN5	Right	Right	LR
PIN6	Top Sense	---	Sense
PIN7	Bottom Sense	---	---
PIN8	Left Sense	---	---
PIN9	Right Sense	---	---

SW1:

- S1: Baud rate adjustment, 'OFF' is for 19200 bps, 'ON' is for 9600 bps
- S2: PnP enable or disable, 'OFF' is enable, 'ON' is disable
- S3 set at "ON" & S4 set at "OFF" is for 5-wire touch screen
- S3 set at "OFF" & S4 set at "ON" is for 4 and 8-wire touch screen