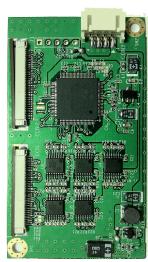


PenMount 1300 Control Board Data Sheet

PenMount 1300 USB / I²C Interface Control Board

PenMount 1300 control board is one of the cutting-edge innovations from PenMount. A collectively integrated feature with USB / I^2C interface supporting 8" to 10.9" projected capacitive touch screens; complemented by the superbly developed PenMount drivers which can be used directly in Windows 7.

PenMount 1300 Control Board uses P2-04 Series controller, which is a capacitive sensing IC designed for AMT Projected Capacitive Input (PCI) touch panel and other projected capacitive touch panel. It is designed for PCI touch screen size up to 10.9". PenMount 1300 Control Board has the programmable filter, gain amplifier; with the functions of single, dual touch; and the gestures of one and two fingers. There are four connectors on this board: two 40 Pins ZIF connectors for PCI touch screen FPC tail, one USB connector for 4-pin USB cable (optional).



Specifications

Touch Screen: Projected capacitive type, size is 8" to 10.9"

Host interface: USB : Full-speed, 12Mbps

I²C: Slave, support 400 kHz specifications

Touch Screen Controller: PenMount P2-04 series

Size: 40X70 mm, two 3φscrew holes

ADC resolution: 10 bits

Operating Voltage: +5V DC for USB & I²C

Storage Temperature Range: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ Operating Temperature: $-10^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Power Consumption: Typical 25mA Max. touch line: 23 sensing lines

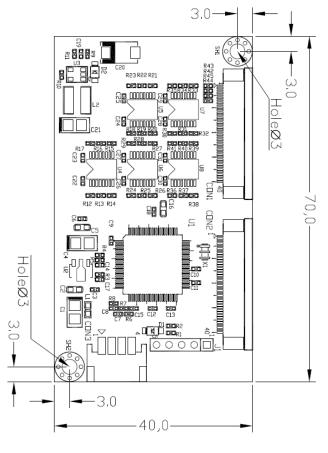
30 driving lines

Sample rate: > 100 sps (sample per second)



PenMount 1300 Control Board Data Sheet

Mechanical size



Connector Definition

2 NC 12 Cap Drive X4 22 Cap Drive X14 32 Cap Drive X24 3 NC 13 Cap Drive X5 23 Cap Drive X15 33 Cap Drive X25 4 Ground 14 Cap Drive X6 24 Cap Drive X16 34 Cap Drive X26 5 NC 15 Cap Drive X7 25 Cap Drive X17 35 Cap Drive X27 6 Shield 16 Cap Drive X8 26 Cap Drive X18 36 Cap Drive X27 7 NC 17 Cap Drive X9 27 Cap Drive X19 37 Cap Drive X28 8 Cap Drive X0 18 Cap Drive X9 27 Cap Drive X19 37 Cap Drive X29 8 Cap Drive X0 18 Cap Drive X10 28 Cap Drive X20 38 NC 9 Cap Drive X1 19 Cap Drive X11 29 Cap Drive X21 39 NC 10 Cap Drive X2 20 Cap Drive X12 30	CON1 40Pin ZIF , PH 0.5mm								
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4 Ground 4 SCL	2	D-	2	INT					
	3	D+	3	SDA					
5 VCCI2C	4	Ground	4	SCL					
			5	VCCI2C					

Unit: mm

Driver Software:

Windows XP & Vista: single touch, mouse driver for USB Interface.

Windows 7: dual touch, Inbox driver for USB interface

Linux: driver by request

Utility:

Firmware adjustment utility is ready for user to fine tune the touch panel sensitivity.

Remark: Specification is subject to change without prior notice