



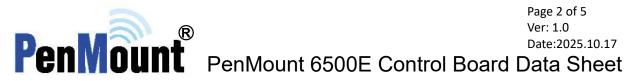
PenMount 6500E Control Board Data Sheet

RoHS Compliance

PenMount 6500E has collectively integrated features and functions of auto detecting USB and RS232 serial interfaces supporting 4, 8-wire or 5-wire resistive touch screens; complemented by the superbly developed PenMount drivers with auto installation driver capability. PenMount 6500E control board uses PenMount 6010 controller that has been designed for those who may like all-in-one solution with 12bit A/D converter built-in to make the total printed circuit board denser. There are three connectors on this board, one connector is for 4, 8-wire or 5-wire touch screen cable, and another is for 4-pin USB A type cable, the third is for RS232 cable.

Specifications:

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Touch Screen	For 4, 8-wire or 5-wire analog resistive type		
Communications	USB Full-speed, 12Mbps		
	RS232 19200 baud rate,PnP mode		
Touch Screen Controller	PenMount 6010 controller IC		
Resolution	4096X4906 (Maximum)		
Size	60x26 mm, two 3φ screw holes		
Cursor accuracy	< 1% (Active Area Diagonal of touch screen with		
	PenMount Advanced calibration utility support)		
Resistance Range	50~1.3K ohm		
Diagnostic	LED on board		
Operating Voltage	+5V DC		
Electro Static Discharge	Air Discharge 15KV ,		
(ESD)	Contact Discharge 8KV		
Storage Temperature	-40 ℃~85 ℃		
Operating Temperature	-20℃ ~85 ℃		
Power Consumption	Standby Mode : 9 mA ; Active Mode : 52mA		
	(VCC=+5V, Touch Panel Resistance: 95 ohm)		
	Note. Actual current will be different by touch panel's resistance.		



Driver Software: RS232 interface:

DOS

Windows XP/ XPE/ 2003/ 2008/ Vista/ 7 /8 /10 /11

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:

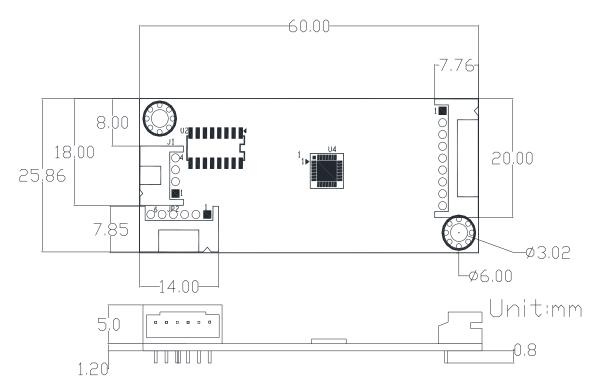
Windows XP/ XPE/ 2003/ 2008/ Vista/ 7 /8 /10 /11

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)

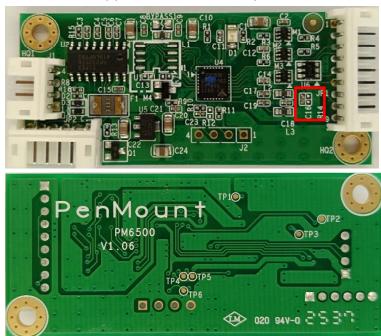
Mechanical Size: PM6500E5 and PM6500E8 are the same mechanical size.





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PM6500E5 supports 5 wires touch panel, R14 is not mounted in the circuit.



PM6500E8 supports 4/8 wires touch panel, R14 is mounted in the circuit.





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Connector Definition

J1 USB Connector:

PIN 1	GND	
`PIN 2	D+	
PIN 3	D-	
PIN 4	VCC	

JP2 RS232 Connector:

PIN1	Ground	
PIN2	+5V DC	
PIN3	RTS	
PIN4	TXD	
PIN5	RXD	
PIN6	Ground	

JP1 Touch Screen Lines:

	PM6500E8		PM6500E5
	8-Wire	4-Wire	5-Wire
PIN1	Ground	Ground	Ground
PIN2	Top Excite	Тор	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 PM6500E control board:

-- PM6500E8: 4 \ 8 - wire , RS232 & USB COMBO Interface •

-- PM6500E5: 5 - wire RS232 & USB COMBO Interface •