



Product Specifications

Touch Panel Controller

THC-56XX series
Product Version: A2.1



RoHS Compliance

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1. Overview

The THC-5600 series provides the optimistic performance for most 4-wire, 5-wire and 8-wire analog resistive touch panels. It communicates with PC system directly through USB or RS-232 port. The touchscreen device driver is able to emulate mouse left and right button for various operation systems.

2. Hardware Specifications

Circuit Board Dimension	75.00mm x 35.00mm
Touch Controller	Hampshire controller HSA01 series
Power Requirements	DC + 5V +/- 5%
Power Consumption	1 Watt
Interface	Bi-direction RS-232 serial communication USB: 2.0 Full Speed
Protocol (RS-232)	No parity, 8 data bits, 1 stop bit, 9600 baud (N, 8, 1, 9600)
Operation Temperature	-40°C to 85 °C
Storage Temperature	-65°C to 120°C
Resolution	True 10-bit (1,024 x 1,024) ratio metric analog to digital converter (1,048,576 points in the field)
Position Detection Speed	> 120 pts/sec (unfiltered points)

3. Software Driver Support

Drivers are available for Windows™ 9X, 2K, ME, XP, Windows-7, Vista, DOS™, Linux™, MAC and other operating systems and their variations.

4. Functional Table

	USB	RS232	4-wire touch	5-wire touch	8-wire touch
THC5640	*		*		
THC5650	*			*	
THC5680	*				*
THC5641		*	*		
THC5651		*		*	
THC5681		*			*

5. Connector Pin Assignment

Touch connector	4-Pin	1	2	3	4				
		Top	Left	Bottom	Right				
	5-Pin	1	2	3	4	5			
Uper Right		Lower Right	5W	Uper Left	Lower Left				
8-Pin	1	2	3	4	5	6	7	8	
	Bottom	B Sense	T Sense	Top	Right	R Sense	L Sense	Left	

USB	5-Pin	1	2	3	4	5
		D-	D+	GND	+5V	GND

RS-232	6-Pin	1	2	3	4	5	6
		RX	TX	+5V	NC	GND	GND

6. Driver Installation

1. Download and upcompress touch driver from <http://www.spectrah.com/download/index.htm>
2. Follow the required procedures on screen to finish the driver installation.
3. Do touch point calibration after you finish installation.

7. PCB Layout

