



# Product Specifications

## Touch Panel Controller

### THC-5680

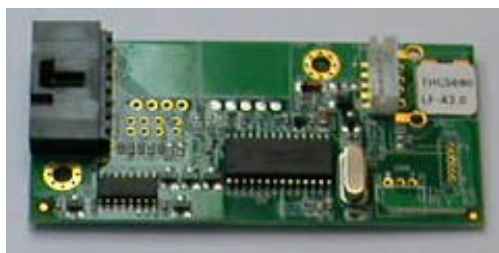
Product Version: V01



**RoHS Compliance**

**Issue Date: Oct-31-2007**

**Document Version: 1.2**





**Overview:**

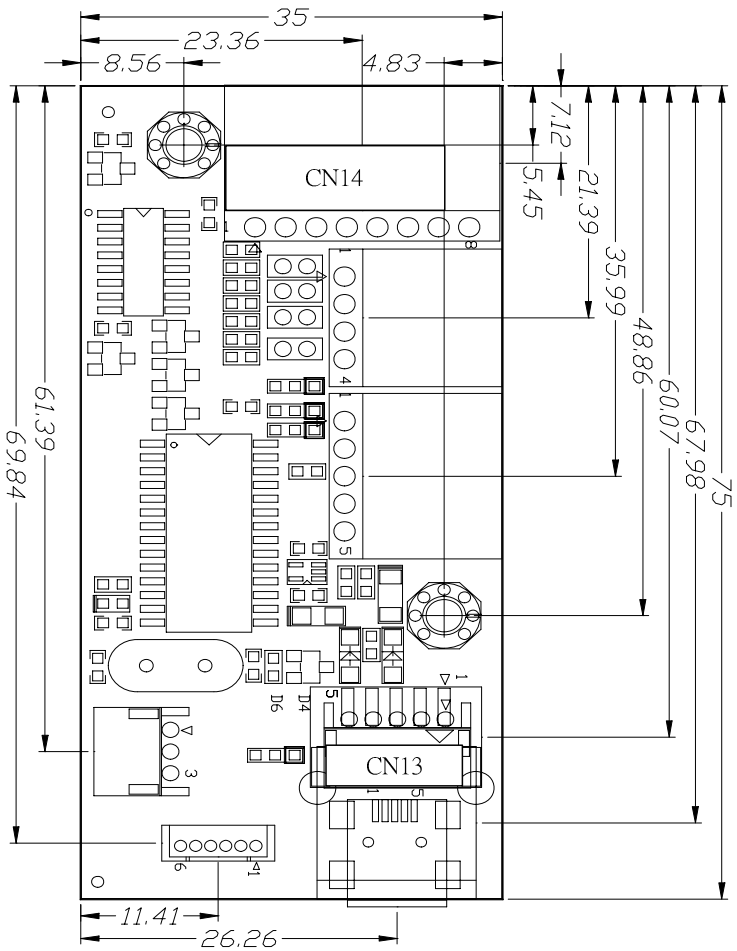
The THC-5680 provides the optimistic performance for most 8-wire analog resistive touch panels. It communicates with PC system directly through USB port. The touchscreen device driver is able to emulate mouse left and right button for various operation systems.

**Hardware Specifications**

Circuit Board Dimension	75.00mm x 35.00mm
Touch Controller	Hampshire controller HSA01 series
Power Requirements	DC + 5V +/- 5%
Power Consumption	< 2 mA@ 4V, 4MHz
Brown out Voltage	2.7V
Operation Temperature	-40°C to 85 °C
Storage Temperature	-65°C to 120°C
Interface	USB mode: USB 2.0 compliant (1.5Mbs/sec)
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)
Pin out Definition	BOTTOM, B SENSE, T SENSE, TOP, RIGHT, R SENSE, L SENSE, LEFT
Green Product	RoHS

**Software Support:**

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



Touch Connector

CN14	
PIN NO.	DESIGNATION
1	BOTTOM
2	B SENSE
3	T SENSE
4	TOP
5	RIGHT
6	R SENSE
7	L SENSE
8	LEFT

USB Connector

CN13	
PIN NO.	DESIGNATION
1	D-
2	D+
3	GND
4	+5V
5	GND

Spectrah Dynamics Inc.

DESCRIPTION	Touch Panel controller	DATE	March, 13, 2007	APPROVED		Rev.	C
MODEL	THC-5680	SCALE	- / -	DESIGN		Page	1 of 1
PART NO.		UNIT	mm.	DRAWING		B-Page	of