

HANTOUCH USA HALOGEN FREE CONTROLLERS

HT-EBS5-3U

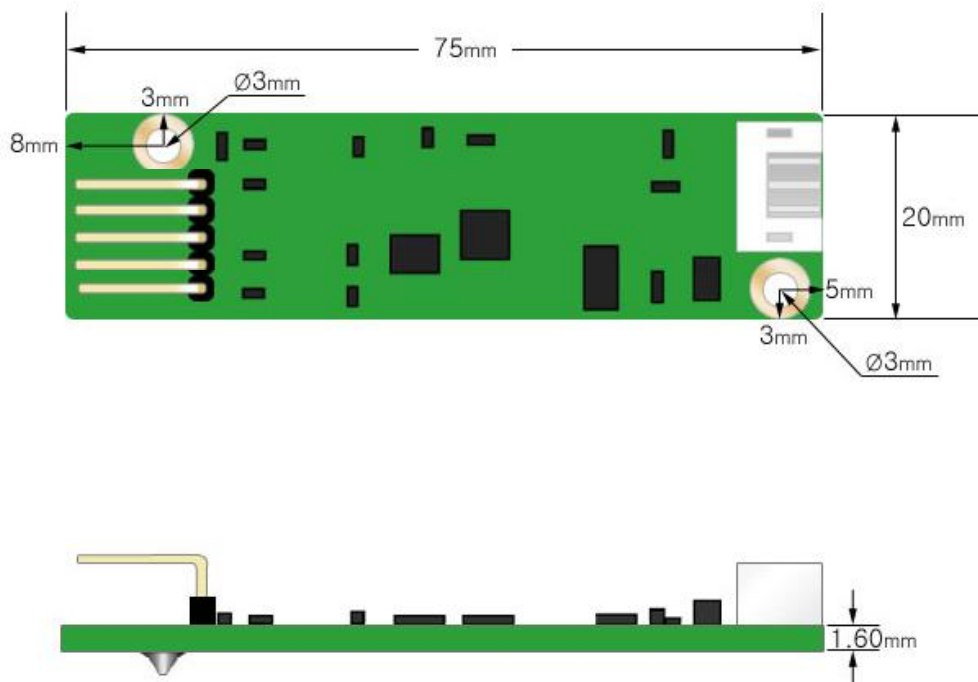
(5 - WIRE RS232)

1. Features

Hantouch launched touch control board to meet latest Restriction of Hazardous Substances (RoHS) Directive. As HT-EBS5-3 improved models will be able to use ESD improvements the RS232 ports.

This touch panel controller provides the optimistic performance of your analog resistive touch panels for 5-wire models. It communicates with PC system directly through RS232 connector. You can see how superior the design is in sensitivity, accuracy and friendly operation. The touch panel driver emulates mouse left and right button function and supports various operation systems.

- 5 wire resistive model
- Support utility Program
- Supports various operation systems
- Support RS232 Port



< Picture1 : Dimension >

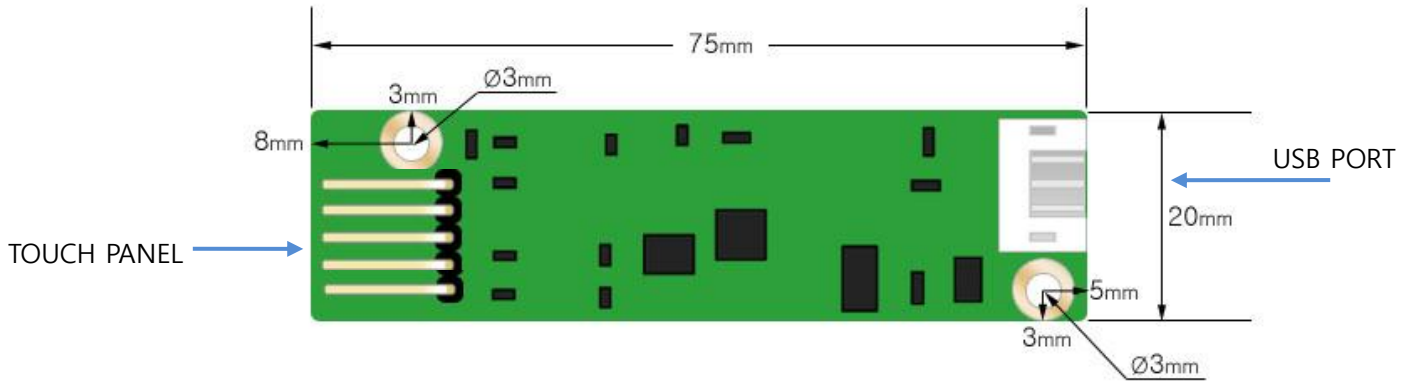
2. OS Support

OS	Version	Interfaces
Windows	Windows Vista, XP/2000, 9x/ME Windows CE 2.12/3.0/.net/5.0/6.0 Windows Embedded Windows XP Tablet PC edition Windows Vista Windows NT4	RS232
Linux	Mandrake (Mandrake 9.1/9.2/10, Mandriva 2005, Mandriva 2006), Red Hat (7.3/8.0/9.0), Fedora (Core I/II/III/IV/V/VI), Yellow Dog (3.X), SuSE (9.2/9.3/10/10.1), Ubuntu (5.1/6.06), Debian (3.1, Kernel 2.4.x/2.6.x)	RS232 (up to Kernel 2.6.x)
DOS	DOS	RS232

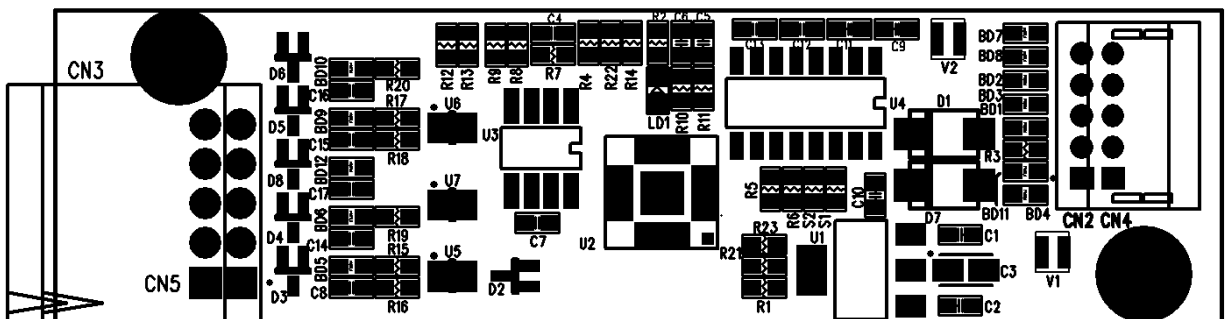
3. Specifications

<i>HT-EBS5-3U RS232 PORT (CN4)</i>	
Circuit Board Dimension	20mm x 75mm (0.79inches x 2.95inches)----(5-Wire)
Power Requirements	D.C.+5V (80mA typical,50mV peak to peak maximum ripple and noise)
Operating Temperature	0 to 50 °C
Storage Temperature	-40 to 80 °C
Relative Humidity	95% at 60 °C
Interface	Bi-directional RS-232 serial communication
Protocol	No parity,8 data bits,1 stop bit,9600 baud(N,8,1,9600)
Resolution	2048x2048 resolution
Report rate	RS232 Model: Max. 160 points/sec
Response time	Max. 20 ms
Attached Cable	6' shielded cable with 9-pin D-sub connector
EMI	Unaffected by environmental EMI
Panel resistance	5 wire resistive model: 200 ~ 900 ohm
MTBF	200,000 hrs

4. Pin Assignment



< Picture2 : Port Position >



< Picture3 : Parts Layout >

4.1 RS232 PORT (CN4)

- Connector : YEONHO 20010WR-05 (2mm Pitch, 5pin, Angle)
- Pin Number

PIN	NAME	NAME
1	GND	POWER - GND
2	+5V	POWER - 5.0V
3	GND	POWER - GND
4	TXD	RS232 TXD (OUT)
5	RXD	RS232 RXD (IN)

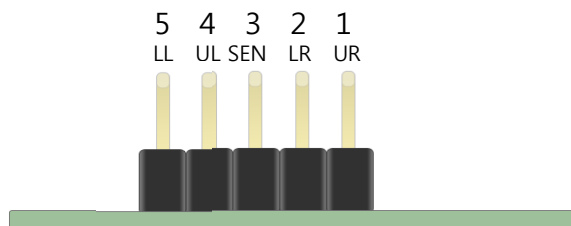
- Cable : RS232 Cable with PS/2 Power

PS/2	RS232	Wiring Diagram	YEONHO 20010WR-05
1			1 : POWER - GND
2			2 : POWER - +5V
3 : GND			3 : POWER - GND
4 : +5V			4 : TXD
5			5 : RXD
6			
	1		
	2 : RXD		
	3 : TXD		
	4		
	5 : GND		
	6		
	7		
	8		
	9		

4.2 TOUCH PANEL PORT (CN3) – ELO TYPE

- Connector : Pin Header 2.54Pitch 5PIN, Angle
- Pin Number

PIN	NAME	NAME
1	UR(RT)	TOUCH PANEL UR
2	LR(RB)	TOUCH PANEL LR
3	SENSE	SENSE
4	UL(LT)	TOUCH PANEL UL
5	LL(LB)	TOUCH PANEL LL



4.3 3M TYPE PANEL CABLE

PIN	ELO TYPE	NAME	3M TYPE
1	UR(RT)		UR(RT)
2	LR(RB)		UL(LT)
3	SENSE		SENSE
4	UL(LT)		LL(LB)
5	LL(LB)		LR(RB)

