

Surface Acoustic Wave



Controller ETSRD

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Controller Datasheet



Features

- ◆ +5V DC (+4.75V ~ +5.25V)
- ◆ 10ms conversion time
- ◆ Support size of touchscreens from 8.4" to 24" without jumper setting
- ◆ Touch sensitivity can be adjusted in 5 levels
- ◆ Operation temperature from 0 to 70°C

Electrical Characteristics

Supply Voltage	+5V DC (+4.75V ~ +5.25V)
Supply Current	80mA (+12V DC)
	Power must supply 200mA at least.
Interface	USB 2.0 Low-Speed
Resolution	4096x4096, size independent
Electrostatic Protection	Per EN 6100-4-2 1995: Meets Level 4 (15KV air/ 8 KV contact discharges)
Conversion Time	Approximately 8.4 ms Per coordinate Set
Reliability	MTBF greater than 300,000 hours per MIL-HDBK-217-F2 using the part stress calculation method for ground benign environment with an ambient temperature of 25 °C

Environmental Conditions

Operating Temperature Range	0° C ~ 65° C
Storage Temperature Range	-25° C ~ 85° C
Operating Humidity Range	10% ~ 90% (no dew falls)
Storage Humidity Range	10% ~ 90% (no dew falls)
Operating Altitude	10,000 feet (3048m)
Shock and Vibration	Three axis sine wave, 50Hz to 2KHz, 1G, 2 minutes/octave With dwell on resonances
Flammability	The PCB substrate and all plastic components, such as headers and connector are rating UL 94 V0.

Mechanical Characteristics

Construction	Four-layer surface-mount design with internal ground plane for EMI suppression
Dimensions	PCB 85mm × 55mm × 10mm Refer to picture
Power interface	Preassign single power interface, USB bus supply +5V DC or external power supply
To PC connector	USB SMD A Type

Software Driver

Support Operating System: Microsoft Windows XP / 2000 / VISTA

Linux:: RedHat 9.0 , Fedaro , Ubuntu , Suse , Debian

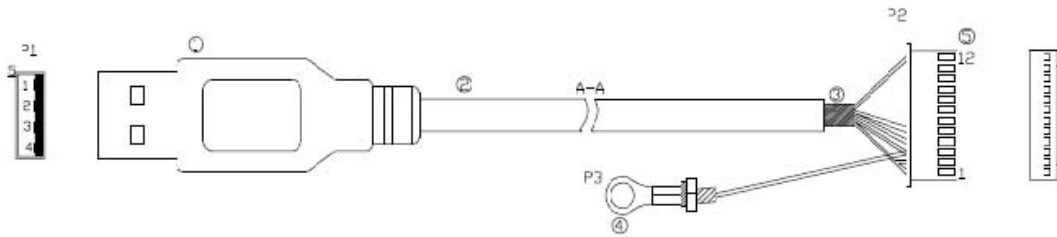
LED Diagnostic Characteristics

A green LED indicates controller status as follow:

LED blink frequency	Function
Keep lighting two second before extinguish	Self-check on power
Keep extinguish status	normal, no touch
Blink continuously	Touch status

Definition of connector and pins

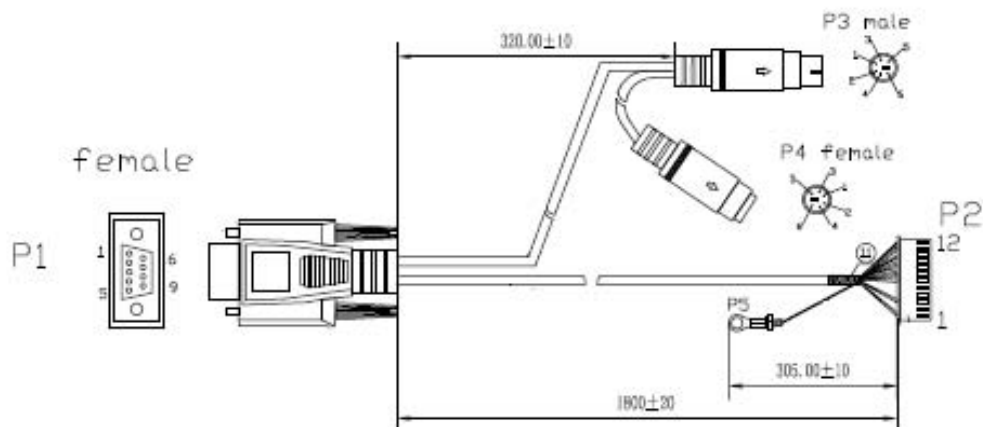
Definition of connector and cable (USB):



P1	P2	P3	color
1	1&2		+5VDC red, orange
2	4		D- white
3	5		D+ green
4	12		GND black
5	3	1	GND
	6		
	7		
	8		
	9		
	10		
	11		

P2 connecting to J1 of the control board, P1 connecting to USB of the PC; P1 is standard USB A Type, The interval of the P2 is 2.0mm

Serial Cable:



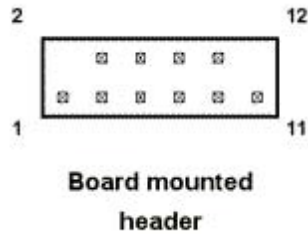
P1		P2	P3(male)/P4(female)	P5
	1	red +5VDC	4	VCC-power+5VDC
	2			
	3	white GND	3	GND-GND
	4			1
	5			
8	6	yellow CTS		
2	7	orange RXD		
3	8	Gray TXD		
6	9	blue DSR		
4	10	black DTR		
7	11	brown RTS		
5	12	green GND		
			5	CLK-clock
			1	DATA-Key Data
			6	n/c-not connected
			2	n/c-not connected

P2 connecting to J1 on the control board , P1 connecting to COM of the PC; P1 is standard DB9 male, a 12 header with pins on 2.0mm centers; P3 (male) and P4 (female) are standard PS2/Keyboard, PS2/Keyboard supply +5VDC for control board.

Touchscreen Connector (J2) and signal instructions

Touchscreen Connector J2 is a dual row by six position header with 0.635 mm square pins spaced on 2.54 centers for connection with touch panel.

Touchscreen Connector pin drawing, connecting orientation:



Certificate

FCC CE UL RoHS CB

Warranty

3-year limited warranty

Drawing

