ATouch Technologies Co., Ltd.



Specification of
4 Wire Analog Resistive
USB Control Board
Model No.: 4WRUSBS

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4 WIRE ANALOG RESISTIVE USB CONTROL BOARD

A. Application

This specification applies to the following

USB Control Board for 4 Wire Analog Resistive Touch Panel.

Model No.: 4WRUSBS

B. Environmental Conditions

1. Operating Temperature Range

-10°C ~ 60°C

2. Operating Temperature Humidity

5% to 95% RH (no dew falls)

3. Storage Temperature Range

-25°C ~ 85°C

4. Storage Temperature Humidity

5% to 95% RH (no dew falls)

C. Electrical Characteristics

1. Power Requirement

+5V DC (±10%)

2. Power Consumption

Operating: 80~90mA

Non-operating: 120~130 mA

Max. current : 140mA Min. current : 80mA

3. Expend Power

124 mA

4. Interface

USB 1.1

Plug and play compatible

5. Electrostatic Protection

Per EN 61000-4-2, 1995 : Meets Level 4

(15 kV air / 8 kV contact discharges).

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4 WIRE ANALOG RESISTIVE USB CONTROL BOARD

6. Touch Resolution

4096x4096

7. Conversion Time

Approximately 10 ms per coordinate set.

D. Mechanical Characteristics

1. Dimensions

PCB board outside dimension : 55 (L) x 22.5 (W) x 11 (H) mm Refer to Appendix A.

2. Standard Cables, Connectors and Pin Definitions

- Standard external USB cable connecting the controller with the computer USB port. Refer to Appendix B.
- USB Output Connector: P2
 2.0 pitch 4 pin connector on board for connection with USB port.
 Refer to Appendix A.
- Touchscreen Connector: P3

1x4 male header with pins on 2.54mm centers for connection with the touch panel.

Refer to Appendix A.

E. LED Diagnostic Characteristics

A green LED indicates controller status as follows:

Action & Condition	LED status	Function	
The control board is connected	Light continuously	The control board is	
with host, not touch panel yet.	Light continuously	normal condition.	
No touch	Snuff out	Untouched state	
Touch	Light	Touched state	

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4 WIRE ANALOG RESISTIVE USB CONTROL BOARD

F. Software Driver

Under Windows: Mouse emulation.

Support Operating System

Microsoft Windows NT4.0/XP/2000/ME/98/95

• Linux: Red Hat 9.0, Mandrake 10.0, SuSE9.2,

Fedora Core I &II & III, Yellow Dog 3. x

G. Reliability

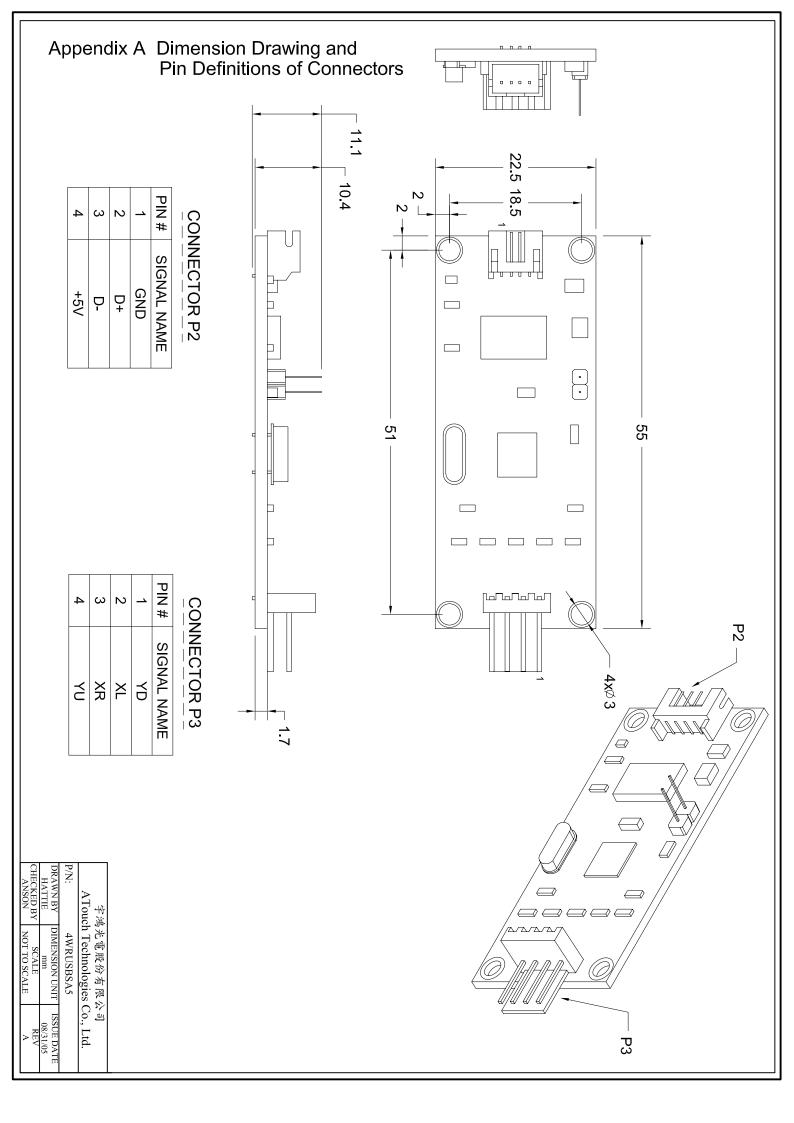
The following characteristics are generated by evaluating test samples after 2 hours leaving in the room condition when each of the reliability tests finishes.

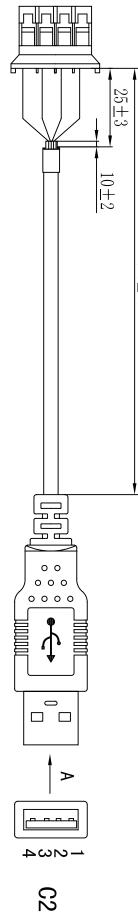
Test Item	Result	Remark
Storage Temperature-high	85°C for 240hours	At ambient
		humidity
Storage Temperature-low	-25°C for 240hours	
Thermal Shock	-10°C (1 hr.)~ 60°C (1 hr.)	
	10cycles	
High Temp./Humidity Test	60°C/95%RH : 240hours	

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MATERIAL LIST:

CONNECTOR:

C1:2.0 PITCH 4PIN HOUSING COLOR:BLACK.

C2:USB A MALE PVC MOLDED COLOR:BLACK.

CABLE:

UL2464 #26*4C+AE OD:5.0mm COLOR:BLACK.

12*5.6*20mm PVC MOLDED COLOR:BLACK

PIN ASSEMBLY

GND-	₽ -	Р	+5V —	
	2	ယ်	-4	Ω
4 BLACK	3 GREEN		1 RED	C2